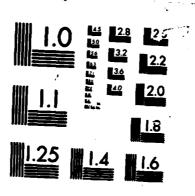
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# UNDERWATER FACILITIES INSPECTIONS &

**ASSESSMENTS** 

**NAVAL AIR STATION** 

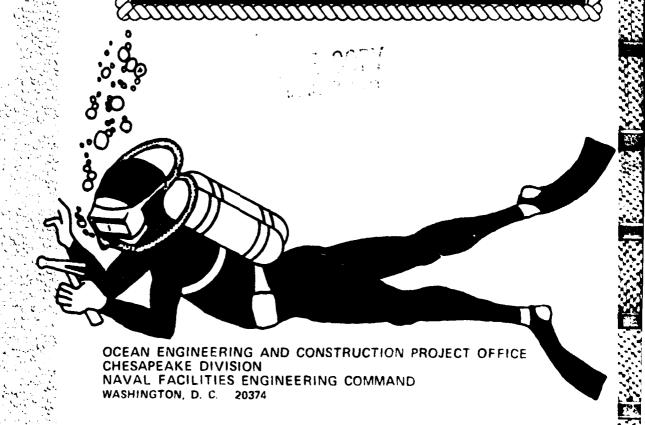
**NORTH ISLAND** 

**NAVAL SUPPLY CENTER** 

SAN DIEGO, CA

FPO-1-81(3)

**SEPT 1980** 



# UNDERWATER FACILITIES INSPECTIONS AND ASSESSMENTS AT

NAVAL AIR STATION

NORTH ISLAND

NAVAL SUPPLY CENTER

SAN DIEGO, CA

FPO-1-81(3)

**SEPT 1980** 

PERFORMED FOR:

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OCEAN ENGINEERING AND CONSTRUCTION PROJECT OFFICE

**CHESAPEAKE DIVISION** 

**NAVAL FACILITIES ENGINEERING COMMAND** 

WASHINGTON, D.C. 20374

INSPECTION PERFORMED AND REPORT PREPARED BY:

UNDERWATER CONSTRUCTION TEAM TWO PORT HUENEME, CA

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# INSPECTION SUMMARY FOR QUAY WALL AND J-K PIER NAS NORTH ISLAND

# A. Lima Quay Wall Inspection Summary:

The quay wall is constructed of concrete sheet piles, and consists of 3400 lineal feet in addition to the east end. The inspection was referenced to NAVFAC drawing #1343552. The quay wall is in good condition.

Heavy marine growth approximately three inches thick was evident from the mud line to the low water mark throughout the length of the wall. (Marine growth consisted primarily of barnacles, mussels and scallops.) Fill material was washing out behind the wall in several noted locations.

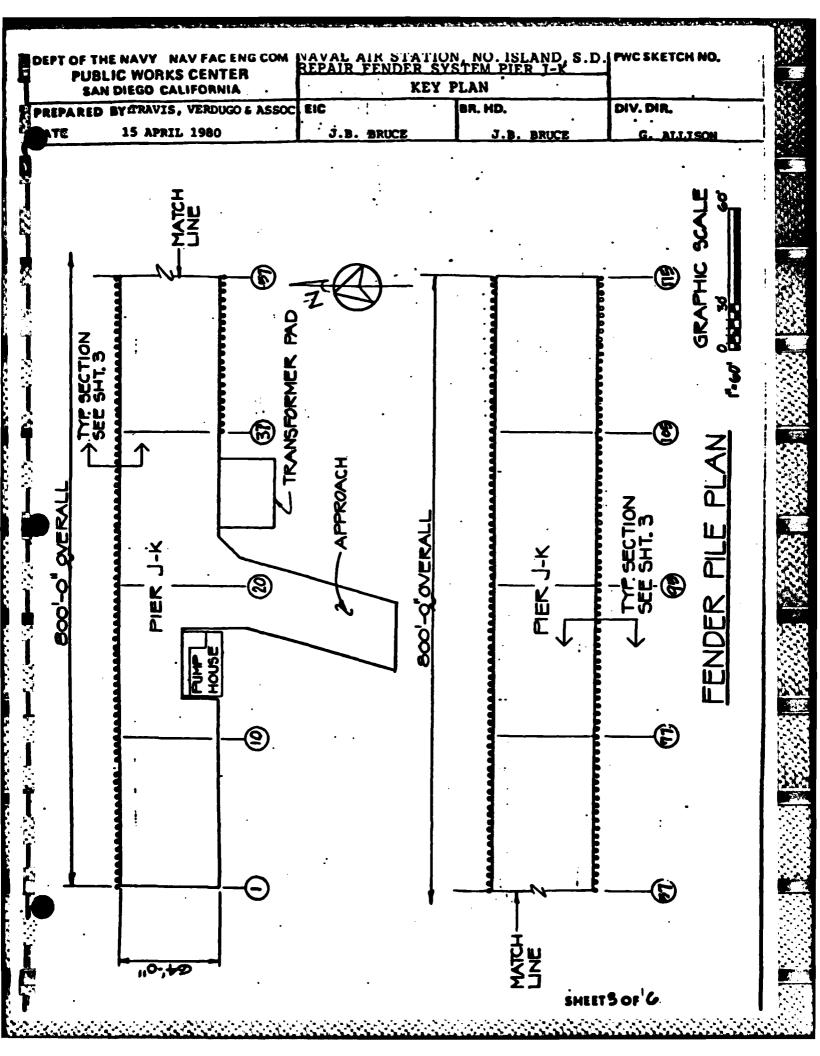
# B. J-K Pier:

Half of the piles on J-K pier were spot inspected (at least four places on each) for a total of 300 piles. Spot inspection was required due to heavy marine growth on the piles. Of the 300 piles inspected 168 have sustained minor to moderate damage. The pier is still considered serviceable but requires major work soon to remain serviceable.

The minor damage consisted of small cracks and the moderate damage from cracks 1/2 to 3/4 inch deep and up to 20 feet long. Upon cleaning the piles bankia and toredos were often present. Age and marine growth have caused spalling and generally softened the concrete. A more thorough inspection would require extensive cleaning.

Under the pier, above the waterling were several areas with exposed rebar. Improper preparation of the area to be repaired is a probable cause of the extensive spalling of these gunite repairs. NAVFAC drawing numbers 6003915 and 6003918 germane. Photos showing some of the damage are attached as enclosure (3).

Enclosure (1)



|     |               |    | P  | 16   | R  | J  | <b>-</b>     | K            | ,            | 7    | A : | >  | 7  | ) F          | T  | H  | 1  | SL | Α,            | 7        | )           |    |    |          |        |    |            |                      |
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| Pier J-K  | •                                       | •••••                        | •   |
| LTIVITY NAS No. Island  | YR_BUILT_                               | 1945                         | •   |
| DEATION San Diego   | LENGTH                                  | 800 FT                       | •   |
| TRUCTURE NO. 1310   | WIDTH                                   | 64 FT                        | A. A.   |
| RME Pier J-K  | ELEVATION                               | +10.0'                       | mL  |
| ATEGORY CODE 15120  | _ MAP.GRIS                              | 1D .                         |   |
| ROP. RECARD No. 2-01368   | _ REPLACEM                              | NT COST                      | 14,552,000  |
| CQSTN COST 2,102,343  | DRAWING_A                               | •                            |   |
| •   |   | • •                          |   |
| YPE SF SHIPS TO BE MO   |   | Pier Carrier                 | CVA   |
| •   |   |                              |   |
| LAW <u>. VERTISAL</u> LOADS <u>1</u><br>LOW:_HOR\ZONTAL_LOADS                               |   | SPECIFIC                     | CADING.   |
| YPE_OF_PIER   | -                                       |                              | •   |
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16 Sept 1980 Armstrang . Johnson San Diego

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TOTAL CARREST CONTRACTOR

3400 lineal feet. NAVFAC Drawing 1343552 CANCRETE SHEET PILES

- NAS North Island

LIMA GUNY WALL



### **DEPARTMENT OF THE NAVY**

UNDERWATER CONSTRUCTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

UCT2:PMP:vm 5000 02 December 1980

From: Officer in Charge, Underwater Construction Team TWO

To: Distribution

Subj: Pier and Quay Wall Inspection

Ref: (a) UCT TWO OpOrd 6-80 of 27 AUG 80

Encl: (1) Inspection Summary and Inspection Data Sheets for Lima Quay Wall and J-K Pier, NAS North Island

(2) Inspection Summary and Inspection Data Sheets for Pt Loma POL Pier and Quay Wall

(3) Slides of noted damage on J-K Pier NAS North Island

1. From 15 September 80 through 27 September 80, UCT TWO Det San Diego conducted pier and quay wall inspections at North Island and the Supply Center.

2. Enclosure (1) through (3) are forwarded as the final report in accordance with reference (a).

T. H. CHRISTENSEN

Distribution:

CHESNAVFACENGCOM (FPO-1)

CO, NASNI (STAFFCIVENG) w/encls 1 and 3)

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COM31STNCR (w/o encls)

### INTRODUCTION

The underwater inspections reported herein were performed by Underwater Construction Team Two (UCT-2) at the request of and with funding from the Underwater Inspection Program managed by Naval Facilities Engineering Command, Chesapeake Division, Code FPO-1. This program is part of the Specialized Inspection Program initiated in FY 80 and directed by the Naval Facilities Engineering Command, (NAVFACENGCOM), Code 100 office. This centrally funded program establishes within NAVFACENGCOM the capability for coordinating all Navy efforts to inspect and assess the underwater condition of the Navy's major waterfront facilities.

The UCT-2 inspections were planned by FPO-1 as part of the Underwater Inspection Program. However, FPO-1 manpower limitations prevented the desired monitoring and integration of these inspections into the program, thus the inspection data was not recorded and reported in the manner established for the program. The underwater inspection report included herein is as received from UCT-2 with the following items added by FPO-1 from other sources:

• Cover sheet

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- Introduction
- Sketch of Lima quay wall
- Sketch of J-K pier site
- J-K Pier Data Sheet
- Sketch of Crane Platform J-K
- Sketch of piles inspected at J-K
- Sketch of J-K pier
- Location map, fuel pier
- Sketch of fuel pier
- Sketch of piles inspected

MAVAL CONSTRUCTION BATTALION CENTER PORT HUENEME, CALIFORNIA 93043 SADERWATER CONSTRUCTION TEAM TWO CERANI NENI OF THE NAVY 

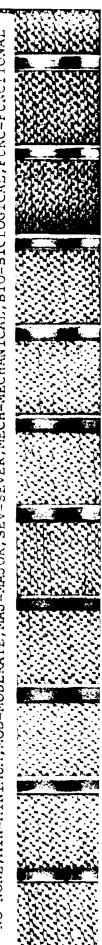
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| DIMENSIONS<br>HGT   WIDTH      |  |     |     |     |     |     |          |     |     |     |     |     |             |                                |
| DAMAGE GAUGE<br>BIO FUNC DEPTH | 27'  | 27' | 27' | 24. | 27* | 27. | 27*      | 25* | 25* | 20. | 20. | 201 | 204         | 20.                            |
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| IN                             |  |     |     |     |     |     |          |     |     |     |     |     |             |                                |
| PILE<br>NO.                    | 4  | -=  | U   | - 3 | ij  | ţi. | C        |     | 25  | U   |     |     | L           | <u>ن</u>                       |
| HON I                          | e  | n   | 2   | n   | 3   | 3   | <u>س</u> | 7   | 4   | 4   | 4   | 7   | 4           | 7                              |

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BICLOGICAL, FUNC=FUNCTIONAL



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| LOCATION: MAS WORTH ISLAND CA | DATE: 17 SIFT, 20 DIVERS:                      |
|-------------------------------|--|
| PIER NAME/NO. JE PILE         | PILE TYPE: X BEARING FENDER SHEET              |
| PILE MATERIAL: TIMBER STEEL   | STEEL PIPE STEEL SHEET CONCRETE STEEL "H" PILE |
| TIME OF DAY: 1150 TIDE:       | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:   |

|   | COMMENTS                                  | 4" MARINE CROWTH IL. (MUSSILS, | H H | =  | =  | =   | 11  | ======================================= | =   | =   | =   | =   | =  | =           | 4" MARIEL GPOTH IF (MUSSELS,<br>BARHACLES & SCALLOPS,) |
|---|---|--------------------------------|-----|----|----|-----|-----|---|-----|-----|-----|-----|----|-------------|--|
|   | WIDTH PENETR                              | - 3                            |     |    | ٠, |     |     |   |     |     |     |     |    |             | 7  |
| г | HGT                                       | •                              | •   | •  | •  | •   |     |   | •   | •   | •   | -   |    | •           | ,  |
|   | TIPE JAMAGE LEAUGE<br>MECH BIO FUNC DEPTH | 25                             | 25  | 25 | 25 | 23, | 20. | 18.                                     | 27, | 27, | 27, | 27, | 27 | 27,         | .27  |
|   | MODIMAJISEV                               | ,                              |     |    |    |     |     |   |     |     |     |     |    | -           |  |
|   | NI NO MIN                                 | ×                              | :4  | K  | 24 | ×   | >1  | :4                                      | ×   | ж   | X • | ×   | X  | ×           | <b>&gt;</b> 4  |
|   | FILE<br>NO.                               | V                              | ::  | Û  | ŋ  | 1.  | F   | С                                       | ¥   | а   | ပ   | D   | Ľ  | <b>‡</b> £. | Ç.   |
|   | NC:                                       | -                              | -   | -  | -  | -   | 1   | -                                       | 7   | C I | 2   | ¢:  | 2  | 2           | ~  |

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NAVAL CONSTRUCTION BATTALION CENTER PORT HUENEME CALIFORNIA 93043 UNDERWATER CONSTRUCTION TEAM TWO UT THE NAV DECAMINE. 

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Attended (1) 

| PT. 80 DIVERS: IONISTON & DITH. | BEARING FENDER SHEET                              | STEEL PIPE STEEL SHEET X CONCRETE STEEL "H" PILE | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: | CONTRACTOR OF CAMPACA   |
|---------------------------------|---|--|--|---|
| DATE: 17 SIPT. 80               | FILE TYPE: X BEARING                              | TEEL PIPE STE                                    | WATER DEP                                    | artist are are a second   |
| LOCATION: MAS LOTTY ISLAM CA.   | LISTING DERFICE PLATTORY PIER NEME/NO. J. V. PILE | PILE MATERIAL: TIMBER S                          | TIME OF DAY: 1150 TIDE:                      | TO SECTION |

|   | COMMENTS           | AMARES CPOTTE IF. (HESELS, | 11 | 1 1        | н н |     |     |     | 11 11 | 11 11 |     |     | 4" MARINE CPONTI, IT. (MUSSILS, PAPMACLES, SCALLOPS.) |   |  |
|---|--------------------|----------------------------|----|------------|-----|-----|-----|-----|-------|-------|-----|-----|---|---|--|
|   | MINTER DENETE      | +                          |    |            |     |     |     |     |       |       |     |     |   |   |  |
|   | DIMEN              |                            |    |            |     |     |     |     |       |       |     |     |   |   |  |
|   | -GAUGE             | 25                         | 25 | 25'        | 251 | 251 | 251 | 251 | 251   | 25.   | 251 | 251 | 251   |   |  |
|   | DAMAGE<br>BTO FINO |                            |    |            |     |     |     |     |       |       |     |     |   |   |  |
|   | MECH D             |                            |    |            |     |     |     |     |       |       |     |     |   |   |  |
|   | CE1/               | 5                          |    |            |     |     |     |     |       |       |     |     |   | _ |  |
|   | MAIN DAYSON        |                            |    |            |     |     |     |     |       |       |     |     |   |   |  |
| 1 | PIL<br>NEW OW      |                            | :4 | <b>:</b> : | :4  |     |     | ×   | ×     |       | 143 | *   | <b>:</b> 4  |   |  |
|   | H                  | 7                          |    |            |     |     |     |     |       |       | •   |     |   |   |  |
|   | 다.<br>보고 ( )       | <u> </u>                   | 1E | ع          | C1  | 71  | 7   | 41. | ~     | .0    | 3   | :3  | ્   |   |  |
|   |                    |                            |    |            |     |     |     |     |       |       |     |     |   |   |  |

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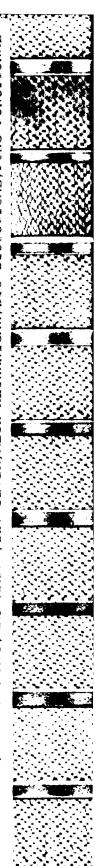
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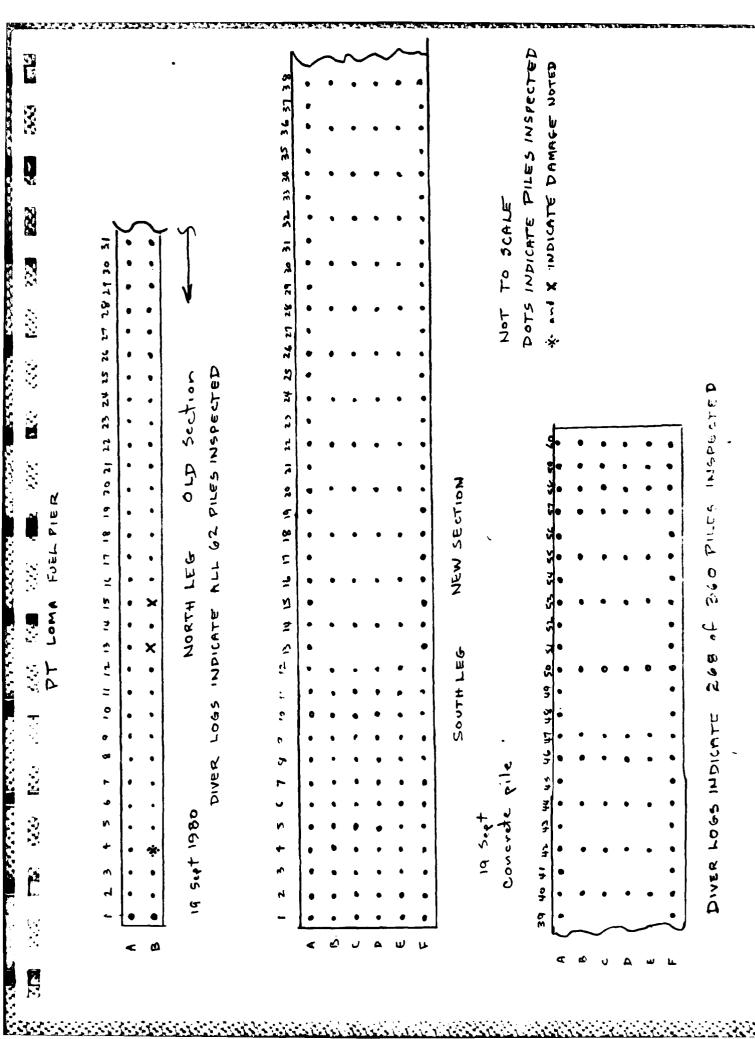
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NATAL CONSTRUCTION BATTALION CENTER PORT HUENEME CALIFORNIA 93043 I TUERBATER CONTINUES ON TEAM TWO

|                      |                              |                |               |                                |  | -                              |             |                           |                             | <br>                                   | <br><u>ن</u>                                     |   |          |                   |
|----------------------|------------------------------|----------------|---------------|--------------------------------|--|--------------------------------|-------------|---------------------------|-----------------------------|--|--|---|----------|-------------------|
| TPONG & JOHNSON      | я <u>х</u> знеет             | STEEL "H" PILE | DEPTH - TIDE: | COMMENTS                       | 3" MARTHE GROUTHS. EAST FUD OF PLAYUMLS. | CAP BLITTEN PILES. 16" LIBI OR | IT TURFACT. | HOLF VITH SAMP COMING OUT | SAND FILTEPING OUT OF CRACK | SAND FILTERING OUT ALONG THE<br>ROTTOM | CONTINUES SIGNS OF SAME LITAKING MACKETHE BOTTON | CPACE STARTING AT THE SOTTOM<br>RISTIC TO A DEPTH OF 201. A |          | END OF INSPECTION |
| DIVERS: ARMSTPONG    | FENDER                       | X CONCRETE     | 1 = GAUGE     | PENETR                         |  | <b>"</b> "                     |             | 6"                        | 2"                          |  |  | 12"   |          |                   |
| VIO                  | BEARING                      | SHEET X        | OM DATUM =    | DIMENSIONS OF HGT WIDTH        |  | 16"                            |             | (ای                       | <br>21,511                  |  |  | 1, 1/   |          |                   |
| 30                   | BE                           |                | TH FROM       | DIMEN                          |  | 351                            |             | 15                        |                             |  |  | 15*   |          |                   |
| 16 CEPT.             | TYPE:                        | STEEL          | ER DEPTH      | GAUGE                          |  | 35*                            |             | 36.                       | 351                         | 351                                    | 351  | 351   |          |                   |
| DATE:                | PILE                         | व्यक्त<br>व    | WATER         | DAMMGE GAUGE<br>BIO FUNC DEPTH |  | <b>;</b> ;                     |             | ×                         | <br>×                       |  | <br>   |   |          |                   |
|                      |                              | TEELS          | E:            | MECH                           |  |                                |             |                           |                             |  |  |   |          |                   |
|                      | PIER NAME/NO. LIMA (QUAYUML) | TIMBER         | TIDE:         | DAMMGE<br>OD MAJ I SEV         |  |                                | -           |                           |                             |  |  |   |          |                   |
| LOCATION:54 FINGS GA | LIMA (                       |                | 400           | MOD                            |  |                                |             | ×                         |                             |  |  |   |          |                   |
| SA, UI               | :/NO.                        | MATERIAL:      | DAY: 1400     | PILE<br>NO MIN                 | ×  | 蛲                              |             |                           | <br>×                       | <br>×                                  | <br>::   | <br>Ж   | <u> </u> | M                 |
| TION                 | NAME                         |                | OF            | HZ                             |  |                                |             |                           |                             |  | +  |   |          |                   |
| LOCA                 | PIER                         | PILE           | TIME          | PILE<br>NO.                    | <b>}</b> -                               |                                |             |                           |                             |  |  |   |          | ,                 |
|                      |                              |                |               | 10.1                           | \$10 <b>.</b>                            | 4304                           |             | ( 07.                     | 167                         | 0.71                                   | Ü.   | 34  |          |                   |

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL





| Prepared by: FERVER ENG. CO.  BILLIANS  949.5'  NORTH LEG SHT.3. SOUTH LEG SHEETS 3 4 4  NORTH LEG SHT.3. SOUTH LEG SHEETS 3 4 4  NORTH LEG SHT.3. SOUTH LEG SHEETS 3 4 4  PIER PLAN  SCALE: 14 = 200'  LEGEND (SEE SHEETS 2,3,4)  DIESEL FUEL PIPE  AG AVIATION GAS PIPE  NG MOTOR GAS PIPE  NG MOTOR GAS PIPE  NAVY SPECIAL (BLACK OIL) PIPE   | PUBLIC WORKS (                        |                  | N 30,        | PIER P  |             |           |         |                                       |
|--|---------------------------------------|------------------|--------------|---------|-------------|-----------|---------|---------------------------------------|
| NORTH LEG SHT3. SOUTH LEG SHEETS 3 44  SEA HALL?  SEA HALL?  SEA HALL?  SEA HALL?  DEC PLAN  SCALE:  1 = 200'  LEGEND (SEE SHEETS 2,3,4)  DIESEL FUEL PIPE  JET FUEL PIPE  AG AVIATION GAS PIPE  MG MOTOR GAS PIPE   |                                       | L ENG. CO.       |              | BRUCE   |             | BRUCE_    | DIV. DI | LLISON                                |
| SEA NALL?  SEA NALL?  WE THE THE THE THE THE THE THE  PIER PLAN  SCALE: [1 = 200'  LEGEND (SEE SHEETS 2,3,4)  DIESEL FUEL PIPE  J — JET FUEL PIPE  AG — AVIATION GAS PIPE  MG — MOTOR GAS PIPE   | <u> </u>                              |                  |              | 949     | .5'         |           |         | _                                     |
| SEA NALL?  SEA NALL?  WE MISHIGHTE HIS   | . 🚽                                   | North Leg        | SHT.3, -     | SOUTH   | LEG : 5     | HEETS_3   | 44      |                                       |
| SEA WALL?  SEA WALL?  PIER PLAN  SCALE: 11 = 200'  LEGEND (SEE SHEETS 2,3,4)  DIESEL FUEL PIPE  JOHN JET FUEL PIPE  AG AVIATION GAS PIPE  MG MOTOR GAS PIPE  | -61                                   |                  |              | 1       | <del></del> |           |         | 0                                     |
| SEA NALL)  SEA NALL)  SEA NALL)  PIER PLAN  SCALE: IN= 200'  LEGEND (SEE SHEETS 2,3,4)   |                                       |                  |              |         |             |           |         |                                       |
| SEA NAULY  SEA NAULY  BEAUTIFUL THE  |                                       |                  |              |         |             |           |         |                                       |
| SEA WALL)  PIER PLAN  SCALE: 1"= 200'  LEGEND (SEE SHEETS 2,3,4)  ———————————————————————————————————  | -io                                   |                  |              |         |             |           |         |                                       |
| SEA WALL)  PIER PLAN  SCALE: 1"= 200'  LEGEND (SEE SHEETS 2,3,4)  ———————————————————————————————————  | , 20                                  | _:34             | .5           | JAC T   |             |           |         |                                       |
| SEA NALL)  PIER PLAN  SCALE: 1"= 200"  LEGEND (SEE SHEETS 2,3,4)  LEGEND (SEE SHEETS PIPE  J JET FUEL PIPE  AG AVIATION GAS PIPE  MOTOR GAS PIPE   |                                       | (N)              | Ì            | 986     |             |           |         |                                       |
| PIER PLAN  SCALE: 1"= 200'  LEGEND (SEE SHEETS 2,3,4)  ———————————————————————————————————   |                                       |                  |              | <   <   | ,           |           |         |                                       |
| PIER PLAN  SCALE: I"= 200'  LEGEND (SEE SHEETS 2,3,4)  |                                       | SEA NALL         | ,            | 916     | •           |           |         | •                                     |
| LEGEND (SEE SHEETS 2,3,4)  LEGEND (SEE SHEETS 2,3,4)  DIESEL FUEL PIPE  J— J JET FUEL PIPE  AG — AVIATION GAS PIPE  MOTOR GAS PIPE   | 4                                     | THEMISTUR        | ME THE       | ne me m | र गाइ       |           |         |                                       |
| LEGEND (SEE SHEETS 2,3,4)  LEGEND (SEE SHEETS 2,3,4)  DIESEL FUEL PIPE  J— JET FUEL PIPE  AG— AVIATION GAS PIPE  MG— MOTOR GAS PIPE  |                                       | · ·              |              |         |             |           | •       |                                       |
| DIESEL FUEL PIPE  J— J JET FUEL PIPE  AG — AVIATION GAS PIPE  MG.— MOTOR GAS PIPE  |                                       | • -              | <b>SCALE</b> | !"= 200 | <b>)'</b>   |           |         |                                       |
| J——J—— JET FUEL PIPE  ——————————————————————————————————   |                                       |                  | LE           | SEND (  | SEE SI      | HEETS 2   | ,3,4)   |                                       |
| J——J—— JET FUEL PIPE  ——————————————————————————————————   | · · · · · · · · · · · · · · · · · · · |                  |              | DIESEL  | ENE 1       | <br>Dide  | -<br>   | • •                                   |
| MOTOR GAS PIPE   |                                       | J                |              |         |             |           |         |                                       |
|  |                                       | <b>v</b> G — · — |              | -       |             |           |         | · · · · · · ·                         |
| The second of th |                                       | NG               |              |         |             |           | (m)     | 2106                                  |
|  |                                       | 1.3              |              |         | • •         |           |         |                                       |
| NOTE A NUMBER PRECEEDING A PIPE LETTER (SHEETS 2,3,4   | <del>-</del>                          |                  |              | •       |             |           |         | 2,3,44                                |
| DENOTES THE NOMINAL DIAMETER OF THAT PIPE.   |                                       |                  |              | _       |             |           |         | •                                     |
| EXAMPLE: GJ IG & JET FUEL PIPE.  | EXAM                                  | PLE:             |              |         | - 10 4      | 7 E   FUI |         | · · · · · · · · · · · · · · · · · · · |
|  |                                       |                  |              |         | •           |           |         |                                       |

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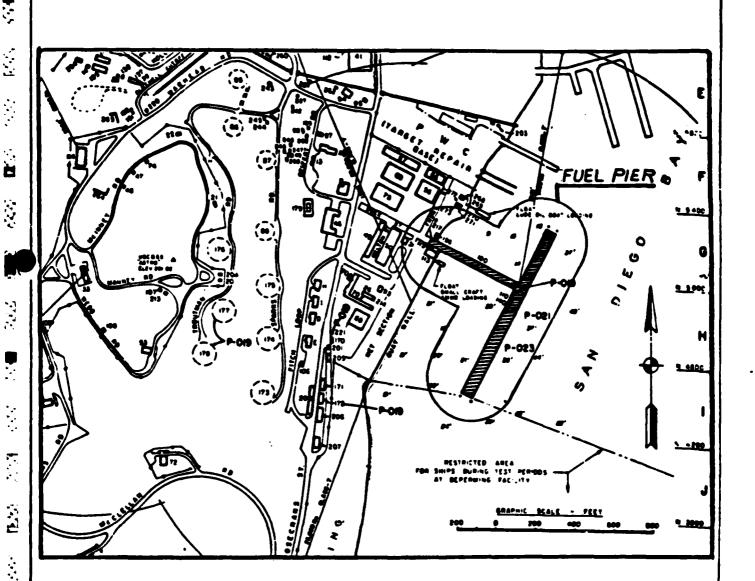
J. B. BRUCE ...

J. B. BRUCE ...

J. B. BRUCE ...

J. B. BRUCE ...

G. ALLISON



LOCATION MAP

CONTRACT INDIVIDUAL CONTRACTOR

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# INSPECTION SUMMARY OF PT LOMA POL PIER AND QUAY WALL

# A. Quay Wall:

The six hundered foot quay wall was inspected and approximately three inches of marine growth was noted throughout. The wall appears to be in excellent condition except for three areas near building 113. These areas require repair in the near future to halt the washout which is causing the macadam to sink along the wall.

# B. POL Pier:

Pier 180, for convenience, is referenced to as either the "old" or "new" sections. The older section consists of 57 cylindrical concrete piles. Piles numbers 4B, 12B, 13B, and 15A all have lost structural integrity, and each has been replaced with four wood supporting piles. On the new section, 291 piles were inspected, with no significant damage noted. Marine growth of two to six inches was in evidence on the majority of the piles.

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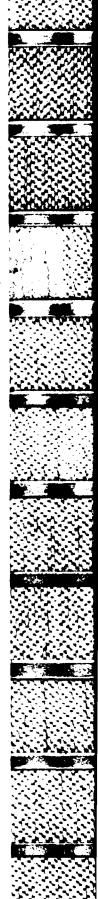
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| DIVERS: JOHNSTON & DUNN       | G FENDER SHEET        | CONCRETE STEEL "H" PILE     | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: | CHE CAMACE I   |
|-------------------------------|-----------------------|-----------------------------|--|--|
| DATE: 17 SEFT. 30             | PILE TYPE: X BEARING  | THE STEEL SHEET             | WATER DEPTH FROM D                           | STANAC BO BUCH INSTELL BOLLDE TO THE   |
| LOCATION: MAS MORTH ISLAMD CA | PIER NAME/NO. JR PILE | PILE MATERIAL: TIMBER STEEL | TIME OF DAY: 1235 TIDE:                      | THE STATE OF THE S |

| COMMENTS                                 | 4" MARINE GROWTH IF. (MUSSILS, BARNACHES & SCALLOPS.) | 11 11 |     |     |     |            |     | :   |     |            |      |     | =   | 4" MARINE GROWTH IF. (MUSSFLS, PARVICALS & SCALLOPS.) |
|--|---|-------|-----|-----|-----|------------|-----|-----|-----|------------|------|-----|-----|---|
| OF DAMAGE                                | 1. 4. E   |       | _   |     |     |            |     |     |     |            |      |     |     | 4"<br>EA  |
| SIONS                                    |   |       |     | ٠,  |     |            |     |     |     |            |      |     |     |   |
| DIMENSIONS<br>HGT WIDT                   |   |       |     |     |     |            |     |     |     |            |      |     |     |   |
| GAUGE                                    | 251   | 20.   | 2:1 | 204 | 20. | 20.        | 201 | 20. | 15' | 21,        | 20.  | 211 | 211 | 20.   |
| TIPE DAWNSE GAUGE<br>MECH BIO FUNC DEPTH |   |       |     |     |     |            |     |     |     |            |      |     |     |   |
| E DAM                                    |   |       |     |     |     |            |     |     |     |            |      |     |     |   |
|  |   |       |     |     |     |            |     |     |     |            |      |     |     |   |
| S<br>J SEV                               |   |       |     |     |     |            |     |     |     |            | <br> |     |     |   |
| DAWAGE<br>MOD MAJ                        | ·   |       |     |     |     |            |     |     |     |            | <br> |     |     |   |
| N MOI                                    |   |       |     |     |     |            |     |     |     |            |      |     |     |   |
| NO MIN M                                 | 1   |       |     |     |     |            |     |     |     |            |      |     |     |   |
| N<br>IN                                  | >4  | ×     | ;<  | ×   | >4  | <b>≻</b> < | ×   | ×   | ×   | **         | :4   | X   | ×   | :ব  |
| <b></b>                                  | ٧   | A     | ı   | IJ  | Ú   | ᆈ          | ш   | C   | A   | ۲.         | 8    | S   | ด   | .11   |
| BENT PILE<br>NO. NO.                     | ر ر   | 9     | ر   | 9   | 9   | ŷ          | ć   | 9   | 7   | <b>c</b> c | .o   | ော  | တ   | ပ   |

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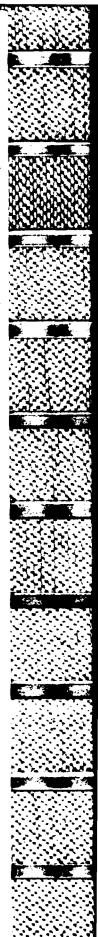
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| חשת                    | Знеет           | STEEL "H" PILE | H - TIDE:          | COMMENTS                        | 4" MARINE CROTTH IE. (MUSSILS,<br>BARNICLES & SCALLOPS.) | 11   |         |            | 11  |     | 11  | 11  | 11  |     | =   | CONCRETE IS SOFTENISC | 4" MARINE GROUTH II. (MUSSFLS,<br>BARGICLES & SCALLOPS,) | A" MARINE GPOTTH HE. (MUSSILS,<br>PARNICHES & SCALLOPS.) |
|------------------------|-----------------|----------------|--------------------|---------------------------------|--|------|---------|------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|--|--|
| DIVERS: JOINSTON & DUM | FENDER [        |                | GAUGE DEPTH        | DAMAGE<br>PENETR                |  | z    | =       | =          | =   | z.  | =   |     | ±   | E.  | =   | CONCR                 | 4" MARINE<br>BARGICLES                                   | 4" MARINE<br>EARNICLES                                   |
| DIVERS                 | RING            | ET X CONCRETE  | FROM DATUM = GAUGE | H P                             |  |      |         | ١,         | •   |     |     |     |     |     |     |                       |  |  |
| SEPT. 30               | TYPE: X BEARING | JSTEEL SHEET   | ОЕРТН              | GAUGE DIMENSIONS DEPTH HGT WIDT | 21.  | 20.1 | 21'     | 20.        | 211 | 201 | 21' | 20. | 21' | 21' | 20. |                       | 20.  | 20.  |
| DATE: 17 SEPT.         | PILE TY         | I PIPE         | WATER              | DAMAGE GAUGE<br>BIO FUNC DEPTH  |  |      |         |            |     |     |     |     |     |     |     | ×                     |  |  |
| D                      |                 | R STEEL        | TIDE:              | SEV MECH I                      |  |      |         |            |     |     |     |     |     |     |     |                       |  |  |
| MAS MORTH ISLAME       | JE PILR         | : TIMBER       |                    | LAM MODIMAJ                     |  |      |         |            |     |     |     |     |     |     |     |                       |  |  |
| LOCATION: NA           | PIER NAME/NO.   | MATERIAL:      | OF DAY:1250        | NI NO MIN                       | ×  | :4   | ×       | >:         | ж   | ×   | х   | ×   | ×   | ×   | ×   | >:                    | ж  | <b>&gt;4</b>   |
| LOCA                   | PIER            | PILE           | TIME               | NO. NO.                         | Ĺt.  | υ    | V       | -<         | B   | U   | C   | -1  | Į,  | ن   | <   | V                     | 22   | ٥  |
|                        |                 |                |                    | 12 %                            | ∞.   | ၁၁   | رد<br>د | _ <b>⊇</b> | 10  | 1,  | 19  | 17  | 16, | 1.0 | 11  | 12                    | 12   | 17   |

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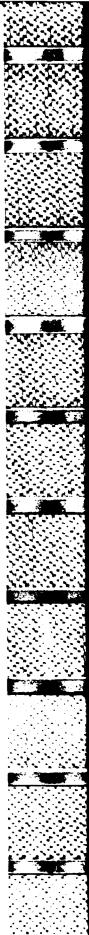
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| LOCATION: LAS HORTH ISLAM CA        | DATE: 17 SEPT. 80               | DIVERS: JOHNSTON & DUNG                           |
|-------------------------------------|---------------------------------|---|
| PIER NAME/NO. JR PIEP               | PILE TYPE: X BEARING            | S SHEET   |
| PILE MATERIAL: TIMBER STEEL         | PIPE STEEL SHEET                | STEEL PIPE STEEL SHEET (Y CONCRETE STEEL "H" PILE |
| TIME OF DAY: 1315 TIDE:             | WATER DEPTH FROM DA             | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:      |
| na pine   Tipe Dawage   Tipe Dawage | MAGE GAUGE DIMENSIONS OF DAMAGE | IS OF DAMAGE!                                     |

| COMMENTS                 | " MARINE GROWTH IF. (MUSSILS, BARNICLES & SCALLOPS.) | SPAIDING NO PE-BAR EXPOSED | 4" MARINE GPO"TH IE, CHUSSELS, | H H H H H H H H H H H H H H H H H H H | 11 11      | =   | ======================================= | = = |     | =   | =   | ======================================= | CONCRETE IS SOFT AND SPAEDLESS | 4" HAPITE GROUNT IL. (MUSSILS,<br>PARMICALS & SCALLOPS,) |
|--------------------------|--|----------------------------|--------------------------------|---------------------------------------|------------|-----|---|-----|-----|-----|-----|---|--------------------------------|--|
| OF DAMAGE                |  | 2"                         |                                |                                       |            |     |   |     |     |     |     |   | 1 1/2"                         |  |
| 1 111                    |  | 15"                        |                                |                                       |            |     |   |     |     |     |     |   | ٤.,                            |  |
| DIMENSIONS<br>HGT   WIDT |  | 18"                        |                                |                                       |            |     |   |     |     |     |     |   | 10"                            |  |
| GAUGE                    | 21,  | 8,                         | 3u.                            | 20.                                   | 21.        | 21. | 21,                                     | 21. | 21. | 21, | 211 | 21.                                     | 21.                            | 214  |
| DAMAGE<br>BIO FUNC       |  |                            |                                |                                       |            |     |   |     |     |     |     |   |                                |  |
| TYPE DA<br>MECH BI       |  |                            |                                |                                       |            |     |   |     | -   |     |     |   |                                |  |
| SEV                      |  |                            |                                |                                       |            |     |   |     |     |     |     |   |                                |  |
| DAMAGE<br>OD MAJ         |  |                            |                                |                                       |            |     |   |     |     |     |     |   |                                |  |
| PILE DA                  |  | <b>Ж</b>                   |                                |                                       |            |     |   |     |     |     |     |   | >1                             |  |
| NO M                     | ×  |                            | ×                              | >4                                    | <b>;</b> : | ×   | :4                                      | Ж   | ×   | įs  | и   | ::                                      |                                |  |
| H                        |  |                            |                                |                                       |            |     |   |     |     |     |     |   |                                |  |
| PILE<br>NO.              | t  | 2.1                        | <b>(2)</b>                     | U                                     | .,         | Υ.  | a                                       | ၁   | ū   | ;   | í÷. | 'n                                      | ¢.                             | <  |
| BENT PIL                 | 1.2  | 12                         | 12                             | 12                                    | 13         | 14  | 1.4                                     | 14  | 1.5 | 14  | 1.4 | 14                                      | 15                             | 10   |

NO=NONE,MIN=MINIMUM,MOD=MODERATE,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL



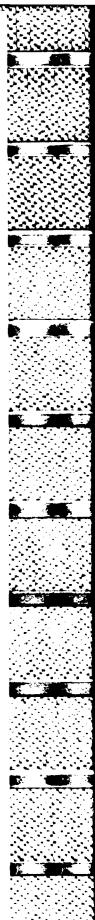
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| LOCATION: TAS TOPTE TELACED CA  | DATE: 17 SIPT. 30 DIVERS: JOHNSTON & DUNN       |  |
|---------------------------------|---|--|
| PIER NAME/NO. JE PIEF           | PILE TYPE: [X] BEARING [FENDER [SHEET]          |  |
| PILE MATERIAL: TIMBER STEEL     | STEEL PIPE STEEL SHEET SCONCRETE STEEL "H" PILE |  |
| TIME OF DAY: 1340 TIDE:         | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:    |  |
| THE BANK BILLE DANGE TIPE DANGE | TIPE DAWAGE LEAUGE DIMENSIONS OF DAMAGE!        |  |

| C       N  | NO. NO. | 7 I I I | NI | N.O | PILE DA | WOD<br>WOD | DAY GE | SISEV | V MECH | PE D | DAMAGE  <br>BIOTEUNC |          | CAUGE | DIMEN | DIMENSIONS C | OF DAMAGE |                        | COMMENTS                   |           |
|--|---------|---------|----|-----|---------|------------|--------|-------|--------|------|----------------------|----------|-------|-------|--------------|-----------|------------------------|----------------------------|-----------|
| C       N       N       21'       21'         B       X       21'       21'       21'         B       X       22'       22'       22'         B       X       22'  |         | 1 - 1   |    | 3/4 |         |            |        |       |        | -    | <br>                 |          | 211   |       |              |           | A" MARINE<br>BARNICLES | CROUTH IF.                 | (MTGSTLE, |
| 5       5       5       5       5       5       5       5       5       5       5       6       7       6       7  | 1.      | ပ       |    | .4  |         |            |        |       |        |      |                      |          | 214   |       |              |           | =                      | ŧ                          | Ε         |
| 5       X       211       *         8       X       221       *         9       X       X       X         10       X       X       X         10       X       X       X         10       X       X       X         11       X       X       X         12       X       X       X         13       X       X       X         14       X       X       X         15       X       X       X         16       X       X       X       X         17       X       X       X       X         16       X       X       X       X         17       X       X       X       X         18       X       X       X       X         19       X       X       X       X         10       X       X       X       X         10       X       X       X       X         10       X       X       X       X       X         10       X       X       X       X <t< td=""><td>1.</td><td>a.</td><td></td><td>۶,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>21.</td><td></td><td></td><td></td><td>=</td><td>=</td><td>=</td></t<>     | 1.      | a.      |    | ۶,  |         |            |        |       |        |      |                      |          | 21.   |       |              |           | =                      | =                          | =         |
| x         x         x           x         x         x           x         x         x           y         x         x  | 1.,     | , -     |    | ::  |         |            |        |       |        |      |                      |          | 214   |       | ٠,           |           | Ξ                      | ŧ                          | =         |
| A       E       E       22°       10       1            | 16      | :       |    | ×   |         |            |        |       |        |      |                      |          | 214   |       |              |           | =                      | =                          | =         |
| 5       3       32°       32°         6       3       32°       32°         9       43       3       32°       32°         8       3       32°       32°       32°         8       3       32°       32°       32°         8       3       32°       32°       32°         9       3       32°       32°       32°         9       3       32°       32°       32°   | 17      | ٠٠.     |    | ٠;  |         |            |        |       |        |      |                      |          | 22.   |       |              |           | =                      | =                          | =         |
| 5       X       22°       22°         6       X       22°       22°         7       X       22°       22°         8       X       12°       22°         9       X       12°       21°         1       X       12°       21°         2       X       12°       21°         3       X       12°       21°         4       22°       4       4         5       X       22°       4         6       X       22°       4         7       X       22°       4  | 15      | ۲,      |    | : ; |         |            |        |       |        |      |                      |          | 224   |       |              |           | =                      | =                          | =         |
| 0       32°       22°         0       32°       32°         1       32°       32°         3       32°       32°         4       32°       32°         5       32°       32°         6       32°       32°         7       32°       4         8       12°       12°         9       4       4         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12°       12°         1       12° <td>1.3</td> <td>;1</td> <td></td> <td>×</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td>22.</td> <td></td> <td></td> <td></td> <td>=</td> <td>=</td> <td>=</td> | 1.3     | ;1      |    | ×   |         |            |        |       |        |      |                      |          | 22.   |       |              |           | =                      | =                          | =         |
| 1  | 15      | ر       |    | :4  |         |            |        |       |        |      |                      |          | 22*   |       |              |           | =                      | =                          | =         |
| 2       3       3       4       3       4       5       5  | ा       | φ.      |    | 1,5 |         |            |        |       |        |      |                      |          | 22.   |       |              |           | =                      | =                          | =         |
| A 12" 12" 2" 44  A A A A A A A A A A A A A A A A A A   |         |         |    | ::  |         |            |        | ·     |        |      |                      |          | 22.   |       |              |           | =                      | =                          | =         |
| 22.  | 19      | -:      |    |     | • :     |            |        |       |        |      | ) k:                 | <b> </b> | 12.   | 18    | 12"          | 11.7      | CONCRUTE.              | IS SPALIDAN<br>ICTI OF EXP | , THERE   |
|  | -1      |         |    | _^  |         |            |        |       |        |      |                      |          | 221   |       |              |           | 4" MARTNE<br>BAPHICALS | GPOTTH IE.                 | (AUSSTLS) |
|  | S.      | 7.1     |    | . : |         |            |        |       |        |      | <del></del>          |          | 22.   |       |              |           | =                      | E                          | =         |

NC=NONE,MIN=MINIMUM,MOD=MODERATE,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAL,BIO=BIOLGGICAL,FUNC=FUNCTIONAL



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| FTON & DUTY      | к        | Corder "H" Pile  | DEPTH - TIDE: | COMMENTS                | 8" MARINE GROUPE IF. (*1787). |     | =   | ano aliona si Tifa ao alikao. | ONTENTAL IS SOFTHANGE | =          |     |     |     |     |            | и   |            | CONCRETE CROWTH: |
|------------------|----------|------------------|---------------|-------------------------|-------------------------------|-----|-----|-------------------------------|-----------------------|------------|-----|-----|-----|-----|------------|-----|------------|------------------|
| DIVERS: JOHNSTON | FENDER   | X CONCRETE       | JM = GAUGE    | OF DAMAGE               |                               |     |     | 3"                            |                       |            |     |     |     |     |            |     |            |                  |
| [0               | BEARING  | SHEET            | FROM DATUM    | DIMENSIONS<br>HGT WIDTH |                               |     |     | <u>.</u>                      |                       |            |     |     |     |     |            |     |            |                  |
| 90               | X BE     | EEL SIII         |               |                         |                               |     |     | 20"                           |                       |            |     |     |     |     |            |     |            |                  |
| 17 SITT.         | TYPE:    | ETS              | ER DEPTH      | IGAUGE<br>DEPTH         | 22.                           | 221 | 22. | 10.                           | 221                   | 221        | 221 | 221 | 221 | 22" | 221        | 201 | 201        | 20.              |
| DATE:            | PILE     | 日<br>日<br>日<br>日 | - WATER       | DAUGE IL                |                               |     |     |                               | ×                     | ×          | ж   | х   | х   | ×   | ×          | Х   | ×          | ×                |
| GALTE GA         |          | TIMBER STEEL     | TIDE:         | S TYPE                  | _                             |     |     |                               |                       |            |     |     |     |     |            |     |            |                  |
| TVISI ILLO       | अस्यासः  |                  | DAY: 1350     | FILE DAMG               |                               |     |     | ×                             | ::                    | <b>;</b> 4 | ×   | ×   | ;<  | ;;  | <b>3</b> 4 | 54  | <b>;</b> : | ×                |
| Jos: Stor        | NAME/NO. | MATERIAL:        | OF DAY:       | NI NO M                 | и                             | >×; | :4  |                               |                       |            |     |     |     |     |            |     |            |                  |
| LOCATION:        | PIER     | 日日日              | a<br>XX<br>XX | PILE<br>NO.             | ပ                             | Δ.  |     | -<                            | n                     | Ç          | æ   | . 1 | -   | -:  | ۲.         |     | ن          | <b>1</b> 1       |
|                  |          |                  |               | 0.00                    |                               |     |     | _                             |                       |            |     |     |     | - 1 | 57         | G   | 3          | ~                |

NO=NONE, MIN=MINIMUM, MOD=MODEPATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOT GGICAL, FUNC=FUNCTIONAL



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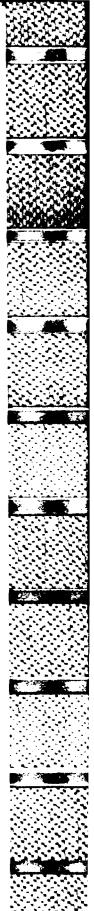
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| MAVAL CONCINCION BATTALION CENTER FORT HUENEME CALIFORNIA 93043 | ID CA DATE: 17 SIFT. SO DIVERS: PPOUTA & JOHNSON | PILE TYPE: [X] BEARING FENDER SHEET | ER STEEL PIPE STEEL SHEET YCONCRETE STEEL "H" PILE | TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: |      |
|---|--|-------------------------------------|--|--|------|
|   | LOCATION: NAS NORTH ISLAND CA                    | PIER NAME/NO.JK PILR                | PILE MATERIAL: TIMBER                              | TIME OF DAY: 1450                                  | 40.5 |

|          |       |       | ļ    |       |             |   |        |       | ł          |       |              |           |                        |  |           |
|----------|-------|-------|------|-------|-------------|---|--------|-------|------------|-------|--------------|-----------|------------------------|--|-----------|
| 35.17    | चार्य |       | F111 | 17 17 | DAMAGE      | 1 | TIPE   | 1     | じかがめる日     | GAUGE | DIMENSIONS C | OF DAMAGE | -                      |  |           |
| , v      | ХО.   | NINON | Σ.   |       | MAN         |   | / MECH | FIELC | BIO FUNC   | DEPTH | WIDTH        | PENETR    | ج<br>ک                 | COMMENTS   |           |
|          |       | <br>  |      |       |             |   |        | -     |            |       |              |           | P" HARTHE CPOTTH       | تەلىنىنا   |           |
| 23       | -     | -     |      | ::    |             |   |        |       | <b>;</b> < | 201   |              |           | CONCPETE I             | CONCPETE IS SOFTENING                                    |           |
| 77       | -:    |       | -    | ж<br> |             |   | -      |       | ×<br>—     | 30.   | <br>         |           | Ξ                      | =  | 2         |
| <u>.</u> | 4     |       |      | Þ¢    |             |   |        |       | ×          | 201   |              |           | E                      | =  | =         |
| 53       | . 7   |       |      | :<    |             |   |        |       | ы          | 50.   | .,           |           | 11                     | 11   |           |
| 53       | D D   |       |      | м     |             |   |        |       | ы          | 201   |              |           |                        | 11   | 11        |
| 57       | (*    |       |      | ×     |             |   |        |       | ×          | 201   |              |           | 14                     | и  |           |
| .5.      | 1.    |       |      | ×     |             |   |        |       | ×          | 201   |              |           | u                      | u  |           |
| 52       | ŭ     |       |      | *     |             |   |        |       | ×          | 291   |              |           |                        | 11   | ŧ.        |
| ?r       | ¥     |       |      | ×     |             |   |        |       | ×          | 20.   |              |           | -                      | =  | =         |
| 2.7      | V     | •     |      | ;4    |             |   |        |       | ×          | 204   |              |           | =                      | =  | =         |
| 28       | • 4   | Х     |      |       |             |   |        |       |            | 21,   |              |           | 8" "ARIME<br>MARMICALS | 8" VARIME CPOUTH IF. CMESSTES,<br>MARMICALS & SCALLOPS.) | e.)       |
| 2        | 4     | ; -   |      |       |             |   |        |       |            | 20.   |              |           | =                      | =  | =         |
| 3.0      | V     | \$4   |      |       | · · · · · · |   |        |       |            | 211   |              |           | :                      | . =  |           |
| ŝ        | 2.7   | 3:4   |      |       |             |   |        |       |            | 20.   |              |           | 8" MARINE O            | 8" MARINE GROTTH IF. (MUSSFLS, BARMICALS & SCALLOFS.)    | (MUSSFLS, |
|          |       |       |      |       |             |   |        |       |            |       |              |           |                        |  |           |

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL



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ADER ASTER CASSES OF ON FEAN TWO
NAVALOUS THE CALIFORNIA 93043

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| 12                         | H                     | H" PILE                              | IDE:  |
|----------------------------|-----------------------|--------------------------------------|---|
| DIVERS:                    | FENDER SHEET          | STEEL SHEET XCONCRETE STEEL "H" PILE | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE |
| DATE: 18 SIPT. SO D        | PILE TYPE: 🗓 BEARING  |                                      | WATER DEPTH FROM DAT                        |
| LOCATION: JAS MATTE ISTAND | PIER NAME/NO. JR FIIR | PILE MATERIAL: TIMBER STEEL PIPE     | TIME OF DAY: 0000 TIDE:                     |

| COMMENTS                       | R" MARTME GROTTH II. (MYSELLS, LARYGALS & SCALLOPS.) | 11 11 | 11 11 | =   | =   | 1   | =   | =     | =   |     | Ξ.  | =  | CONCRETE SPAIDING WITH 8" E-DAP EXPOSED | 8" WARTHE GPOUTH TE. (MUSSEUS, |
|--------------------------------|--|-------|-------|-----|-----|-----|-----|-------|-----|-----|-----|----|---|--------------------------------|
| OF DAMAGE                      |  |       |       |     |     |     |     |       |     |     |     |    | 1,,                                     |                                |
| DIMENSIONS C                   |  |       |       | ٠,  |     |     |     |       |     |     |     |    | 10"                                     |                                |
| DIMEN                          |  |       |       |     |     |     |     |       |     |     |     |    | 1.                                      |                                |
| GAUGE<br>DEPTH                 | 5ú <b>,</b>  | 201   | 201   | 201 | 21. | 21. | 21' | 3 i s | 211 | 201 | 191 | 20 | 191                                     | 21*                            |
| DAMMGE GAUGE<br>BIO FUNC DEPTH |  |       |       |     |     |     |     |       |     |     |     |    | ×                                       |                                |
| FECH                           |  |       |       |     |     |     |     |       |     |     |     |    |   |                                |
| MAJ SEV M                      |  |       |       |     |     |     |     |       |     |     |     |    |   |                                |
| DAMMGE<br>1)D MAJ              | `  |       |       |     |     |     |     |       |     |     |     |    |   |                                |
| WAC BILE DIN                   |  |       |       |     |     |     |     |       |     |     |     |    | и                                       |                                |
| N I N                          | >:   | ;4    | • ;   | . 4 | 24  | স   | **  | ; (   | ×   | × . | м   | ×  |   | K                              |
| BENT PILE<br>NO. NO.           | J  | ü     | ٦.    | -1- | •   | ¥   | -   | ပ     | Ţ   | 7   | V   | ₹; | 44                                      |                                |
| 11.0<br>11.0                   | 33   | 3     | 3.)   | 31  | 32  | 33  | 33  | 33    | 33  | 33  | 34  | 35 | 36                                      | 37                             |

NO=NONE,MIN=MINIMUM,MOD=MODERATE,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL



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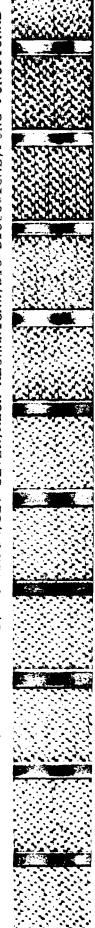
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| LOCATION: LAS HORTH ISLAND CA DATE: 19 STPT. 80 DIVERS: PHOTILLE & PMBORSKI  PIER NAME/NO. JK FILE  PILE MATERIAL: TIMBER STEEL PIPE STEEL SHEET NCONCRETE STEEL "H" PILE |  |
|---|--|
|   |  |
| TIME OF DAY: 3929 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:  |  |

| BENT PILE       | <b></b> | IN | N CN | PILE DAMAGE | יינים<br>מינים<br>גיים | DANGE<br>MAT | CEV. | TIFE | 1 DAI: | DAMAGE<br>PTO PHYO | GAUGE | DIMEN | GAUGE DIMENSIONS OF | F DAMAGE |                           | COMMENTS                         |           |
|-----------------|---------|----|------|-------------|------------------------|--------------|------|------|--------|--------------------|-------|-------|---------------------|----------|---------------------------|----------------------------------|-----------|
| 1 1             | 2 -:    |    |      |             |                        |              |      |      |        |                    |       |       | n i di n            | FENETR   | 10" MARINE<br>BARNICALS & | IO" MARTHE CROWTH IT. (MUSSELS.) | (ARSSFLS  |
| ુર              | :2      |    |      | -           |                        |              |      |      |        | -                  | 201   |       |                     |          |                           | 11                               |           |
| 33              | υ       |    | ;;   |             |                        |              |      |      |        |                    | 211   |       |                     |          | =                         | =                                | =         |
| 38              | =       |    | *    |             |                        |              |      |      |        | -                  | 20.   |       | ٠.                  |          | =                         |                                  | 11        |
| 38              | _1      |    | ×    |             |                        |              |      |      |        |                    | 21,   |       |                     |          | u                         |                                  | 14        |
| 36              | <       |    | ;<   |             |                        |              |      |      |        |                    | 20.   |       |                     |          | =                         | н                                | ı         |
| 4.)             | -:      |    | ×    |             |                        |              |      |      |        |                    | 21    |       |                     |          |                           | 11                               | 11        |
| 4.1             | <       |    | ×    |             |                        |              |      |      |        |                    | 204   |       |                     |          | 11                        | 11                               | ı         |
| 41              | -22     |    | >:   |             |                        |              |      |      |        |                    | 201   |       |                     |          |                           |                                  | 11        |
| <del>-</del> 11 | C       |    |      |             |                        |              |      |      |        |                    | 211   |       |                     |          | •                         | •                                |           |
| 41              |         | _^ |      |             |                        |              |      |      |        |                    | 201   |       |                     |          | ŧ.                        | 11                               | 11        |
| 4.1             |         |    | ·<   |             |                        |              |      |      |        |                    | 211   |       |                     |          | : :                       | =                                | =         |
| 45              | ν,      |    | ×    |             |                        |              |      |      |        |                    | 201   |       |                     |          | =                         | =                                | =         |
| 42              | 113     |    |      | ×           |                        |              |      |      | ×      |                    | 21,   |       |                     |          | CONCRETE IS               | IS SPALDING, 8"MARINE            | 8"MARTITE |

NO=NONE,MIN=MINIMUM,MOD=MODERATE,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL



MAVAL CONSTRUCTION BATTALLON CENTER UNDERWATER CONSTRUCTION TEAM TWO 300 PM

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| DATE: 18 SIPT. 80  DIVERS: DIMILLE & IMPORSKI  PIER NAME/NO. JK PHP  PILE TYPE: X BEARING FENDER SHEET  PILE MATERIAL: TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: | CA DATE: 18 SITT, 80 |
|---|----------------------|
|---|----------------------|

|   | STATEMENTS |                | CONCRET IS SPALDING, 8" OF RE-RAR IS EXPOSED. | 10" MARTHE CROWTH TE. (MUSSFLS, NAPHICALS & SCALLOPS.) | =   | =        | =   | =   | =   | =   |     | =   | =           | =   | =           | 10" MARINE CROWTH IE. COUSSELS,<br>PAPHICALS & SCALLOPS.) |
|---|------------|----------------|---|--|-----|----------|-----|-----|-----|-----|-----|-----|-------------|-----|-------------|---|
|   |            |                | CONCRE<br>RE-BAR                              | OLNGVE<br>SAPRIC                                       | =   | =        | 2   | 1   | =   | =   | τ   | =   | =           | =   | =           | 10" MAR   |
|   | DAMAGE     | PENETR         | 215"  |  |     |          | •   |     |     |     |     |     |             |     |             |   |
|   | SIONS OF   | WIDTH          | "01   |  |     | ٠,       |     |     |     |     |     |     |             |     |             |   |
|   | DIMENSIONS | HGT            | 12"   |  |     |          |     |     |     |     |     |     |             |     | -           |   |
|   |            | DEPTH          | 16,   | 21'  | 20. | 21'      | 20. | 21' | 201 | 211 | 201 | 211 | 2n <b>t</b> | 21, | 20.         | 21.   |
|   | DAVIAGE    | BIO FUNCIDEPTH | ×   |  |     |          |     |     |     |     |     |     |             |     |             |   |
|   | TYPE DA    | MECH   B1      |   |  |     |          |     |     |     |     |     |     | -           |     |             |   |
|   |            | SEV            |   |  |     |          |     |     |     |     |     |     |             |     |             |   |
|   | DAMMGE     | MOD LAJ        | ×.  |  |     |          |     |     |     |     |     |     |             |     | <del></del> |   |
|   | PILL       | Z              |   |  |     |          |     |     |     |     |     |     |             |     |             |   |
|   | X 7        | ON TA          |   | <b>;</b> 4   | ×   | <u> </u> | ;<  | ;<  | >1  | ×   | >:  |     | ×           | ;4  | ×           | ×   |
| , | वरात       | 02             | <   | 16   | ٧   | ٦        | Ŋ   | Ω   | 2ic | I.  |     | 213 | <.          | 113 | Ξà          | ၁   |
|   | BENE       | <br>           | 43  | 43   | 77  | 77       | 77  | 77  | 44  | 44  | 45  | 45  | 46          | 347 | 95          | 76  |

NO=NONE,MIN=MINIMUM,MCD=MODERATE,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL







NAME CONSTRUCTOR BATTALICH CENTER ANDERWATER TONG TRUCTION TEAM TWO COLORESPAY Ţ 1000

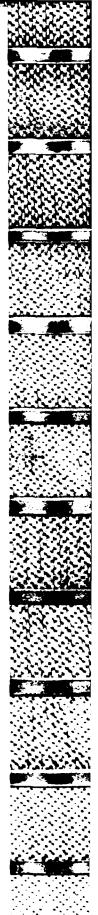
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PORT HUENEME CALIFORNIA 93043

|                     |             | PILE      |               | rs                      | IO" MARINE GROUTH IF. (MUSSELS, SAPYICALS & SCALLOPS.) | 14  | =                                     | MTH, CONCRETE IS   | 11  | 11  | 11  | 11  | 11  | 11           | 11  |          | #          | 10" MARINE GROUTH, CONCRETE IS<br>SOFTENING. |
|---------------------|-------------|-----------|---------------|-------------------------|--|-----|---------------------------------------|--------------------|-----|-----|-----|-----|-----|--------------|-----|----------|------------|--|
| LLE & EMBOPSKI      | R SHEET     | STEEL "H" | DEPTH - TIDE: | COMMENTS                | IO" MARIPE GROUB<br>BAPNICALS & SCA                    | =   | =                                     | 10" MARINE GPOUTH, | 11  | 14  | 14  | 11  | 11  | 11           | и   | ı        | =          | 10" MARTNE GROU<br>SOFTENING.                |
| DIVERS: MINTILL     | FENDER      | XCONCRETE | UM = GAUGE    | OF DAMAGE               | +  |     |                                       |                    | •   |     |     |     |     |              |     |          |            |  |
| 3 08                | X BEARING   | SHEET     | FROM DATUM    | DIMENSIONS OF HGT WIDTH |  |     | · · · · · · · · · · · · · · · · · · · | 4                  |     |     |     |     |     |              |     |          |            |  |
| FrpT.               | TYPE: X     | STEEL     | ек рертн      | GAUGE                   | 211  | 20. | 21,                                   | 20.                | 20. | 21' | 20. | 201 | 21. | 20.          | 21, | 20.      | 20,        | 21*  |
| DATE: 18            | PILE        | PIPE      | WATER         |                         |  |     |                                       |                    |     |     |     |     |     |              |     |          |            |  |
|                     |             | STEEL     |               | BIO FU                  |  |     |                                       | ×                  | ×   | ×   | ×   | ×   | *   | ×            | ×   | X        | <b>*</b> : | ×  |
| v.                  |             | ST        | ë.            | TYPE<br>V MECH          | 1  |     |                                       |                    |     |     |     |     |     |              |     |          |            |  |
| LATIV               | İ           | TIMBER    | TIDE          | SE<br>AJ I SEV          |  |     |                                       |                    |     |     |     |     |     |              |     |          |            |  |
| TII IS              | PILP        | <u>F</u>  |               | DAYLAGE<br>IOD MAJ      |  |     |                                       |                    |     |     |     |     |     |              |     |          |            |  |
| MAS NORTH ISLAMP CA | 5<br>2<br>3 | AL:       | DAY: 1020     | FILE DAMAGE             |  |     |                                       | :4                 | \$4 | >:  | ×   | >4  | :<  | <b>&gt;:</b> | ;×; | :4       | ::         | ×  |
| 1                   | NAME/NO.    | MATERIAL: |               | 0.5                     | ;<   | :4  | ×                                     |                    |     |     |     |     |     | •            |     |          |            |  |
| LOCATION:           |             |           | 1E OF         | N. N.                   | <u> </u>   |     |                                       |                    |     |     |     |     |     |              |     |          | - 3        | .,   |
| 100                 | PIER        | PILE      | TIME          | PILE<br>NO.             | <u> </u>   |     | 25                                    | ~;                 | 3   | ان  | -   | 1   |     | ت            | -1  | 213      | 35         | 4,   |
|                     |             |           |               | 0                       | ا ي  | Ē.  | د                                     | ÷.                 | -   |     | εj  | 2   | -   | 5)           | 9   | <u>-</u> | <u>.</u>   |  |

NO=NONE,MIN=MINIMUM,MOD=MODERATE,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL



ALEMANTE CONTREMENTATION OF THE NAVIOUS OF CONTREMENTATION CENTER PORT HUENEME CALIFORNIA 93043

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| LOCATION: NAS NORTH ISLAND CA  | DATE: 18 SLPT. 80  | DIVERS: DUFAN & CRAIG                           |
|--|--|---|
| PIER NAME/NO. JE FILR  | PILE TYPE: [X]BEARING  | NG FENDER SHEET                                 |
| PILE MATERIAL: TIMBER STEEL  | PIPE STEEL SHEET   | STEEL PIPE STEEL SHEET XCONCRETE STEEL "H" PILE |
| TIME OF DAY: 1115 TIDE:  | WATER DEPTH FROM I   | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:    |
| TOWNER BELLEVILLE SECTION OF THE SEC | RESERVED FOR ANOTHER PROPERTY AND THE PROPERTY OF THE PROPERTY | NO. OF DAMACE                                   |

|                         | CONCRFTE                                      | =   |     | :          | =             | =   | ı   | 11  |     | :   | :    | =   | =   | CONCRETE                    |
|-------------------------|---|-----|-----|------------|---------------|-----|-----|-----|-----|-----|------|-----|-----|-----------------------------|
| COMMENTS                | 10" MARINE GROUTIE, CONCRETE<br>IS SOFTENING. | 2   | ų   | 11         | •             | 1   | ı   | 11  | E   | ε   | =    | z   | 5   | 10" MARINE GPOWING CONCRETE |
|                         | 10" MARINE GR<br>IS SOFTEMING.                | =   | ı.  | =          | Ξ             | =   | н   | =   | =   | ε   | =    | =   | =   | 10" MARTNE G                |
| F DAMAGE<br>PENETR      |   |     |     |            |               |     |     |     |     |     |      |     |     |                             |
| DIMENSIONS OF HGT WIDTH |   |     |     | ٠,         |               |     |     |     |     |     |      |     |     |                             |
| DIMEN                   |   |     |     |            |               |     |     |     |     |     |      |     |     |                             |
| GAUGE                   | 20.   | 21, | 201 | 21,        | 20.           | 20. | 20. | 20. | 21, | ,07 | \$02 | 201 | 214 | 26.                         |
| DATAGE<br>BIO FUNC      |   |     |     |            |               |     |     |     |     |     |      |     |     |                             |
| MECH BI                 | ><  | *   | ×   | <b>:</b> < | ×             | ×   | ×   | >:  | 14  | ×   | ×    | X   | X   | ×                           |
| SEV                     |   |     |     |            |               |     |     |     |     |     |      |     |     |                             |
| DAMAGE<br>OD MAJ        |   |     |     |            |               |     |     |     |     |     |      |     |     |                             |
| NO MIN MODIMAN          | :4  | ×   | ×   | ×          | <b>&gt;</b> : | ×   | ×   | >4  | 24  | >1  | ×    | :Х  | >4  | ×                           |
| NI NO                   |   |     |     |            |               |     |     |     |     | 4   |      |     |     |                             |
| PILE<br>NO.             | <   | 7.3 | U   | Q          | 7             | Ŀ   | ن   | 13  | 25  | 3.5 | 4.5  | -7. | ä   | ی                           |
| BENE                    | 52  | 52  | 52  | 52         | 52            | 52  | 52  | 52  | 52  | 52  | 52   | 55  | ڌر  | 55                          |

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL



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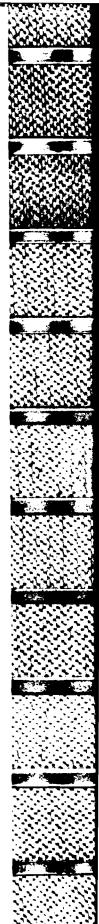
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| LOCATION: LAS HORTH ISLAND CA DATE: 18 SFFT, 80 DIVERS: DUI  PIER NAME/NO. JH PILE  PILE TYPE: NBEARING FEND  PILE MATERIAL: TIDE: WATER DEPTH FROM DATUM = GAUGE  TIME OF DAY: 1130 TIPE DAWAGE GAUGE DIMENSIONS OF DAMAGE |
|---|
|---|

|                                | CONCRETE                                  | 2   | 2        | =   | z             | =   | =   | =    | =             | =            | =   | =   | =    | CONCRUTE                                     |
|--------------------------------|---|-----|----------|-----|---------------|-----|-----|------|---------------|--------------|-----|-----|------|--|
| COMMENTS                       | 10" MAPTHE CROWTH, CONCRETE IS SOFTENING. | 2   | 1        |     | =             | =   | =   | =    | =             | =            | =   | =   | =    | 10" MARINE GPOCTH, CONCRUTE<br>IS SOFTENING, |
| 5                              | 10" MAT                                   | =   | 1        | = = | ı             | E   | E   | =    | =             | =            | =   | =   | =    | 10" "01<br>IS SOF"                           |
| PENETR                         |   |     |          |     |               |     |     |      |               |              |     |     |      |  |
| SIONS OF WIDTH I               |   | - 1 |          | •   | <u>-</u> -    |     |     |      |               |              |     |     |      |  |
| DIMENSIONS<br>HGT   WIDTH      |   |     |          |     |               |     |     |      |               |              |     |     |      |  |
| GAUGE                          | 21"                                       | 201 | 21,      | 211 | 204           | 21, | 211 | 20.  | 21,           | 20.          | 20. | 211 | 201  | 20.  |
| DAMAGE GAUGE<br>BIO FUNC DEPTH |   |     |          |     |               |     |     |      |               |              |     |     |      |  |
|                                | ×   | ><  | <b>ж</b> | ×   | <b>&gt;</b> ; | >:  | ×   | Х    | <b>&gt;</b> : | ><           | ×   | ×   | ×    | ×  |
| TIFE                           |   |     |          |     |               |     |     |      |               |              |     |     |      |  |
| SEV                            |   |     |          |     |               |     |     |      |               |              |     |     |      |  |
| FILE DAMAGE<br>MIN MOD MAJ     |   |     |          |     |               |     |     |      |               |              |     |     | İ    |  |
| E DA                           |   |     |          |     |               |     |     |      |               |              |     |     |      |  |
|                                | *   | ;4  | ×        | и   | <b>:</b> :    | >:  | м   | :4   | ×             | :4           | ×   | и   | >4   | ×  |
| NI NO                          |   |     |          |     |               |     |     |      |               | <del>-</del> |     |     |      |  |
| _                              | ۵   | -1  | ţi.      | C.  | 133           | 2:  | 31: | 413  | ٧             | Ü            | ၁   | G   | ــــ | £4.  |
| BENT PILE<br>NO. NO.           | 55  | ŠŠ  | 55       | ژژ  | 55            | 55  | 5ر  | رَرَ | 53            | 58           | 58  | 5.6 | ສາ   | 5.5  |

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL



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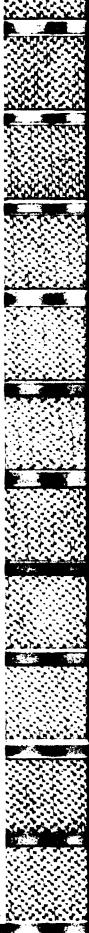
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| LOCATION: HAS HOPTH ISLAMD CA | DATE: 18 SEPT. 80 DIVERS:                       | . PURAN & CRAIS     |
|-------------------------------|---|---------------------|
| PIER NAME/NO.JL FIIR          | PILE TYPE: [X]BEARING [                         | FENDER SHEET        |
| PILE MATERIAL: TIMBER STEEL   | STEEL PIPE STEEL SHEET XCONCRETE STEEL "H" PILE | RETE STEEL "H" PILE |
| TIME OF DAY: 1145 TIDE:       | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE     | GAUGE DEPTH - TIDE: |
|                               |   |                     |

|                                  | <del>,</del>                              |      |     |            |            | · <del></del> |        |     | ,  | · · · · ·                                    |     |     |     |                    |
|----------------------------------|---|------|-----|------------|------------|---------------|--------|-----|--|--|-----|-----|-----|--------------------|
|                                  | COLCELTE                                  |      | =   | =          |            | 11            | 11     | 2   | ov.                                      | падкор                                       | 11  | 14  | 11  | COLCRETE           |
| COMMENTS                         | 10" MARTYF CROWNY, CONCRETE IS SOFTENING. | =    | =   | -          | 14         |               |        | =   | S SPALDING                               | E CROUTE.                                    | =   | 44  |     | 10" MARINE CROUTH, |
| COM                              | 10" MARTNE CR<br>IS SOFTENING.            | =    | =   | =          |            | 11            | 11     | =   | CONCRETE IS SPALDING, NO PERRANG EXPOSED | 10" MARTME CROPTE, CONCRETE<br>IS SOFTENING. | 11  | 11  |     | 10" MARINE C       |
| F DAMAGE<br>PENETR               |   |      |     |            |            |               |        |     | 15"                                      |  |     |     |     |                    |
| SIONS OF WIDTH P                 |   |      |     | ٠,         |            |               |        |     | ųγ                                       |  |     |     |     |                    |
| DIMEN                            |   |      |     |            |            |               |        |     | 9  |  |     |     |     |                    |
| GAUGE DIMENSIONS DEPTH HGT WIDTH | 21.                                       | 214  | 20. | 21,        | 21,        | 20.           | 21,    | 21, | 16,                                      | 21,  | 21" | 214 | 20. | 204                |
| N<br>N                           |   |      |     |            |            |               |        | ,   |  |  |     |     |     |                    |
|                                  | >:  | ы    | ×   | <b>;</b> : | ×          | ×             | ×      | :4  | ×  | ×  | ×   | ×   | ×   | <b>;</b> :         |
| VMECH                            |   |      |     |            |            |               |        |     |  |  |     |     |     |                    |
| SISEV                            |   |      |     |            |            | -             |        |     |  |  |     |     |     |                    |
| DAMAGE<br>OD MAJ                 | •   |      |     |            |            |               |        |     |  |  |     |     |     |                    |
|                                  |   |      |     |            |            |               |        |     |  |  |     |     |     |                    |
| NIM ON                           | >1  | ×    |     |            | ;4<br>     | - X           | >:<br> |     | X  | ;<   |     | ×   | :4  |                    |
| HZ                               |   |      |     |            |            |               |        |     |  |  |     |     |     |                    |
| PILE<br>NO.                      | C   | 11.5 | 23  | 31:        | 4.5        | V             | 2      | ၁   | ď  | 7  | Ļ:. | C   | 15  | 25                 |
| .0X                              | 55  | 35   | 55  | J.C.       | τ <b>)</b> | 13            | 19     | 1.7 | 61                                       | 0.1  | 19  | 61  | 19  | 61                 |

NO=NONE,MIN=MININUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL



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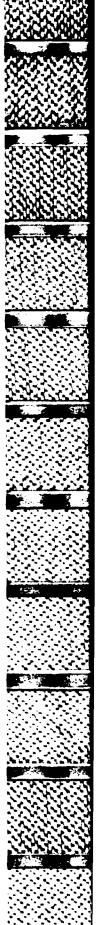
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| i                             |          |                |           | ,                           | ·                                |     | <del></del> |               |     | <del></del> - |     |     | ,       |     |            |     |     |                              |  |
|-------------------------------|----------|----------------|-----------|-----------------------------|----------------------------------|-----|-------------|---------------|-----|---------------|-----|-----|---------|-----|------------|-----|-----|------------------------------|--|
|                               |          | ផ្ទេ           |           |                             | CONCPLIF                         | Ε   | =           | =             | Ε.  | =             | =   |     | 11      | 11  | 2          | z   | =   | COMCRUTE                     |  |
|                               | ET       | HI" PILE       | TIDE:     | COMMENTS                    | E CROUTH,                        | £   | =           | =             | Ξ   | Ξ             | Ξ   | =   | Ξ       | 4   | Ε.         | =   | :   | 10" MARINE GROUTH,           |  |
| & CRAIG                       | Пѕнеет   | STEEL          | DEPTH -   | Ó                           | 10" NAPINE GROUTH, IS SOFTEHING. |     | =           | =             |     | ı             |     | 1   | H       | 11  |            | =   |     | 10" MARINE G<br>IS SOFTENISC |  |
| DIVERS: DURAN & CRAIG         | FENDER   | X CONCRETE     | = GAUGE   | PENETR                      |                                  |     |             |               |     |               |     |     |         |     |            |     |     |                              |  |
| DIV                           | NRING    | SHEET XC       | M DATUM   | DIMENSIONS OF HGT   WIDTH   |                                  |     |             |               |     |               |     |     |         |     |            |     |     |                              |  |
| T. 80                         | BEARING  |                | TH FROM   | DIMEN                       |                                  |     |             |               |     |               |     |     |         |     |            |     |     |                              |  |
| 18 SIFT                       | TYPE:    | STEEL          | ER DEPTH  | DEPTH                       | 214                              | 20. | 204         | 214           | 214 | 21,           | 21' | 21' | 201     | 211 | 204        | 20. | 21  | 21.                          |  |
| DATE:                         | चार्     | FI<br>FI<br>FI | - WATER   | DAMAGE<br>BIO FUNC          |                                  |     |             |               |     |               |     |     |         |     |            |     |     |                              |  |
|                               |          | STEEL          |           | E DAM                       | ×                                | ×   | ×           | ×             | X   | ×             | ×   | ×   | \$<<br> | ×   | <b>;</b> ′ | ×   | ×   | >:                           |  |
| V                             |          | $\mathbb{C}$   | ដ         | TYPE<br>V MECH              |                                  |     |             |               |     |               |     |     |         |     |            |     |     |                              |  |
| ם מיגעיו                      |          | TIMBER         | TIDE:     | AJ SEV                      |                                  |     |             |               |     |               |     |     |         |     |            |     |     |                              |  |
| RII. IS                       | JE FILE  | []             |           | FILE DAMAGE MIN   MOD   MAJ |                                  |     |             |               |     |               |     |     |         |     |            |     |     |                              |  |
| 01. 301                       | 0        | IAL:           | DAY: 1200 |                             | <b>;</b> ;                       | :4  | :4          | <b>&gt;</b> : | 24  | ;: <b>:</b>   | ж   | ×   | и       | >4  | ×          | ::  | :4  | ×                            |  |
| LOCATION: LAS HORIL ISLAND CA | NAME/NO. | MATERIAL:      | OF DA     | NI NO                       |                                  |     |             |               |     |               |     |     |         | 4   |            |     |     |                              |  |
| LOCAT                         | PIER     | PILE           |           | O. NO.                      | 3£                               | 4.5 | ٧,          | :3            | C   | ū             | l.  | Ĺ   | Ü       | 13  | ci         | 3,  | 4., | -<                           |  |
|                               |          |                |           | 0                           |                                  |     | 2           | ς,            | 2   | 2             | 3   | 3   | 5       | 3   | _          |     | 6   | 3                            |  |



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| CHEERWATER CONTRACT CONTEAM TWO | MANAL CONSTRUCTOR OF STRALLON CENTER | PORT HUENEME CALIFORNIA 93043 |

|                  |                  |            |                  |                          |                    |     |               |       |           |     |     |     |      |      |     |     |   | :_                 | l |
|------------------|------------------|------------|------------------|--------------------------|--------------------|-----|---------------|-------|-----------|-----|-----|-----|------|------|-----|-----|---|--------------------|---|
|                  |                  | 6.3        |                  |                          | CONCPETE           | £   | =             | =     | =         | =   | =   | =   | =    | Ξ    | =   | z   | ui. •                                       | CONCPUTE           |   |
|                  | F4               | "H" PILE   | TIDE:            | ENTS                     | GPOPTII.           | =   | =             | =     | ε         | 2   | =   | =   | =    | z    | E   | Ē   | SPALDIA<br>XPOSID.                          |                    |   |
| S CRAIG          | SHEET            | STEEL "    | рертн - т        | COMMENTS                 | 10" MARINE GPOUTH, | Ε   |               | =     |           | =   | =   | =   | =    | =    | =   | =   | COTCEETE IS SPÄLDIMG,<br>PE-BAR IS ENPOSED. | 10" MARTHE GEOFTH, |   |
| DIVERS: DURAN    | FENDER           | CONCRETE [ | = GAUGE          | OF DAMAGE                |                    |     |               |       |           |     |     |     |      |      |     |     | 11:11                                       |                    |   |
| VIG              | RING             |            | DEPTH FROM DATUM | 1 11                     |                    |     |               | ٠,    |           |     |     |     |      |      |     |     | الا <u>ا</u>                                |                    |   |
| T. SO            | * BEARING        | EL SHEET   | TH FRO           | DIMENSIONS<br>HGT   WIDT |                    |     |               |       |           |     |     |     |      |      |     |     |   |                    |   |
| 13 SUPT.         | TYPE:            | STEEL      |                  | GAUGE                    |                    | 214 | 204           | 204   | 201       | 20. | 20. | 21. | , úč | 21.  | 20. | 214 | 10.   | 20.                |   |
| DATE:            | PILE             | Bala       | WATER            | DAMAGE<br>BIO FUNC       |                    |     |               |       |           |     |     |     |      |      |     |     |   |                    |   |
|                  |                  | TEELS      |                  | 1                        | ×                  | >:  | <b>&gt;</b> ; | ×     | \$41<br>- | ×   | ×   | ×   | >:   | >:   | и   | *:  |   | ×                  |   |
|                  |                  |            |                  | TYFE                     |                    |     |               |       |           |     |     |     |      |      |     |     | ×   |                    |   |
| C (2.4           |                  | TIMBER     | TIDE.            | E<br>J   SEV             |                    |     |               |       |           |     |     |     |      |      |     |     | -   |                    |   |
| TOPETH ISLAND CA | FILE             | TIM        |                  | DAYAG<br>OD MA           | -                  |     |               |       |           |     |     |     |      |      |     |     | ×   |                    |   |
| IAS IN           | NAME/NO. JR FILE | AL:        | DAY: 1205        | PILE DAMAGE              | 24                 | ж   | ж             | ж     | *4        | ×   | *:  | 24  |      | ::   | Х   | ×   |   | ;<                 |   |
|                  | AME/N            | MATERIAL:  |                  | NO                       |                    |     |               |       |           |     |     |     |      | •    |     |     |   |                    |   |
| LOCATION:        | PIER N           | PILE M     | TIME OF          | NO. NI                   | en.                | Ü   | £             | ı sai | Į.,       | S   | 113 | 21. | Ji   | 4.1. | -1  | ¥   | ~;  | .2                 |   |
| Ä                | Δ,               | ۵.         | H                | ENT PILE<br>NO. NO.      |                    |     |               |       |           |     |     |     |      |      |     |     |   |                    |   |
|                  |                  |            |                  | 114 22                   | ا پ                | -   | ي د           | 9     | ري        | ب   | )   |     | رد   |      | 1,  |     | ( )   | =                  |   |



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UNDERWATER CONSTRUCT ON TEAM TWO
NAVAL CONSTRUCTOR BATTALION CENTER
PORT HUENEME CALIFORNIA 93043

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| ISLATE CA DATE: 12 SIFT 80 DIVERS: FRONIA & DITE | PILE TYPE: V BEARING FENDER SHEET | TIMBER STEEL PIPE STEEL SHEET SCONCRETE STEEL "H" PILE | TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: | MAGE TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE! |
|--|-----------------------------------|--|--|--|
| LOCATION: AND HOPE ISLATE CA                     |                                   | PILE MATERIAL: TIMBER STEEL                            | TIME OF DAY: 1304 TIDE:                            | TIPITE OWNER TITE DAWNER TITE DAW            |

| 12 0                          | FILE DAY         |
|-------------------------------|------------------|
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| LATE: 10 CHIL CO DIVERS: PROTIL & DETT | PILE TYPE: [ BEARING   FENDER   SHEET | STEEL PIET (STEEL CHEET NCONCRETE (STEEL "H" PILE | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: |
| LOCATION:                              | PIER NAME/NO. IL IIII. PII.           | PILE MATERIAL: TIMBER STEEL PIP                   | TIME OF DAY: 1330 TIDE: W                    |

| COMMENTS                        | 10" MARINE GROUTH, CONCPETE IS SOFTENING. |     |     | PILL HAS A CPACK WITH NO | TEGROTION ORDER GROWNS ST | 11 11      |     | =   | = =      | =       | -    | =   | = = | IOT SAFTEE CONTH, CONORTH, IS SAFTELLED |
|---------------------------------|---|-----|-----|--------------------------|---------------------------|------------|-----|-----|----------|---------|------|-----|-----|---|
| MIDTH PENETR                    |   |     |     | ما الناس                 | •                         |            |     |     |          |         |      |     |     |   |
| DIMEN:<br>HGT                   |   |     |     | 15,                      |                           |            |     |     |          |         |      |     |     |   |
| DAMAGE IGAUGE<br>BIO FUNCIDEPTH | 21.                                       | 201 | 211 | 15'                      | 21,                       | 20.        | 21, | 204 | 21.      | 22      | • vc | 21. | 201 | 11:                                     |
| TYPE                            | ×   | ×ı  | ×   | Ж                        | ×                         | <b>;</b> < | ×   | 14  | ×        | ы       | Þ    | ×   | ×   | ×                                       |
| FILE DAMAGE<br>MIN MOD MAJ SEV  | ·   |     |     |                          |                           |            |     |     |          |         |      |     | -   |   |
| NO                              | Þ:  | ×   | ×   | :4:                      | 34                        | и          | ::  | ::  | ):1      | ><<br>- | ×    | :4  | :<  | ×                                       |
| FILE NI                         | υ   | Q   | ند  | Įa                       | C                         | 11         | 2.0 | 3.5 | 13<br>13 | ٠.      | •1,  | e   | ;   | J                                       |
| 20.7                            | 72  | 72  | 7.2 | 7.2                      | 7.7                       | 72         | 7.7 | 7.5 | 7.7      | 73      | 74   | 22  | 22  | 7.5                                     |



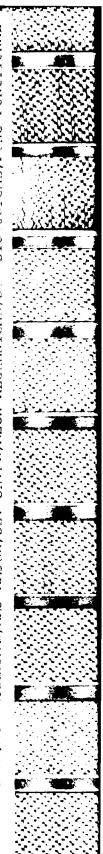
ELECTRICATION OF THE BAND OF AND FEANTWO NAVAL CONSTRUCTOR BRITALION CONTER FORT HUBBENER CALIFORNIA 93043

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| 5   B   | ΛĪC                            | FILE LIFE: [3] BEAKING [FENDER ] SHEEL | TITE TO THE CALLED THE CALLED TO THE TABLE TO THE CALLED T |  |
|---|--------------------------------|--|--|--|
| CCATION: LAS GORTE ISLACE PIER NAME/NO. L. PILR PILE MATERIAL: TIMBER TIME OF DAY: 1403 | LOCATION: LAG GORTE, ISLAND CA | IL PILE                                |  |  |

| COMMENTS                                  | IN MAPLME CPONTH, COMCRETE IS SOFTHMEN. | CONTRETE SPAINTER, 10 PL-PAR FERRING. | 19" TOPINI GROWING CONCERNI | concepts is spainte, no<br>presar exposer. | 10" MAPTH, GROUTH, CONCERTS | = = | CONCERT IS SPAEDING, NO | 10" MAPIKI GPOFILI, CONCRETE<br>IS SOFILMING |             | ======================================= | н          |             | =        | 10" MARINE GROUTE, CONCRETE |
|---|---|---------------------------------------|-----------------------------|--|-----------------------------|-----|-------------------------|--|-------------|---|------------|-------------|----------|-----------------------------|
| F DAMAGE<br>PENETR                        |   |                                       |                             |  |                             |     | 9                       |  |             |   |            |             |          |                             |
| SIONS OF WIDTH 1                          |   |                                       |                             |  |                             |     | <br>()                  |  |             |   |            |             |          |                             |
| DIMENSIONS<br>HGT WIDT                    |   |                                       |                             |  |                             |     | 151                     |  |             |   |            |             |          |                             |
| GAUGE<br>PEPTH                            | 217                                     | , v ;                                 | 108                         | 151  | , WZ                        | 214 | 10.                     | 107  | 211         | 102                                     | 21         | ,1i         | 162      | 214                         |
| THE DAMAGE (GAUGE<br>ECT BIO (FUNC) DEPTH |   | ×                                     |                             | :4   |                             |     | *4                      |  |             |   |            |             |          |                             |
| TIFE DA                                   | ×                                       |                                       | 2.0                         |  | <b>;</b> :                  |     |                         | ×  | ‡= <b>1</b> | <b>&gt;</b> 1                           | <b>)</b> 4 | X           | ×        | <b>)</b> :                  |
| SEV                                       |   |                                       |                             |  |                             |     |                         |  |             |   |            |             |          |                             |
| SAMAGE<br>NOD MAJ                         |   |                                       |                             | ; <b>;</b>                                 |                             |     | .<                      |  |             |   |            |             |          |                             |
| FILE DA                                   | > :                                     |                                       | ×                           |  | : :                         | ::  |                         | • 1  | ::          | ;4                                      | ;-;        | <b>3</b> /1 | \$ 1<br> | ; :                         |
| N. IN                                     |   |                                       |                             |  |                             |     |                         |  |             | •                                       |            |             |          |                             |
| Price<br>No.                              | a                                       | .3                                    | : -                         | Ü  | 15                          | C 1 | 33                      | 4,   | - 4         | 4                                       | -<         | ; :         | Ü        |                             |
| DENT<br>NO.                               | 7.                                      | 7.5                                   | 7.5                         | 75   | 7.5                         | 7.  | 75                      | 7.5  | 7′.         | 77                                      | 7.0        | 77.         | 7.0      | 7.0                         |



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|---------------|---------------|-----------------|--------------------------|------------------------------|--|-------|-----|-----|-----|-----|-----|-----|----------|-----|-------------|
| DUTE          | Јѕнеет        | erra "n" rarrej | H - TIDE:                | COMMENTS                     | IO" MAPINE CROWTH, CONCRETE<br>IS SOPTENING. | =     | ı,  | 11  | п   | =   | a a | Ε   | ŧ        | Ξ   | ı           |
| PROTIA & DUJK | <b>□</b>      |                 | DEPT                     |                              | 10" 1<br>18 SC                               | =     | =   | E.  | 11  | =   | 2   | E   | £        | =   | =           |
| DIVERS: "RO"  | FENDER        |                 | FROM DATUM = GAUGE DEPTH | F DAMAGE<br>PENETR           |  |       |     |     |     |     |     |     |          |     |             |
| DIV           | RING          |                 | M DATUM                  | DIMENSIONS OF<br>HGT   WIDTH | 1 1  |       |     |     |     |     | i   |     |          |     |             |
| Ü5:           | N BEARING     | LSHEET          | H FRO                    | HGT                          |  |       |     |     |     |     |     |     |          |     |             |
| 12 SEFT.      | TYPE: [N      | STEEL           | WATER DEPTH              | DAWAGE GAUGE DEPTH           | 21'  | 201   | 21. | 201 | 211 | 201 | 204 | 21. | 214      | 201 | 112         |
| DATE:         | PILE          | Bala            | WAT                      | GE.<br>FUNC                  |  |       |     |     |     |     |     |     |          |     |             |
|               |               | STEEL 1         |                          |                              |  | >:    | ×   | ×   | >:  | ×   | ×   | ۶¢  | Þī       | *   | <b>\$</b> ; |
| D CA          |               |                 | TIDE:                    | SEV MECH                     |  |       |     |     |     |     |     |     |          |     |             |
| TSLAND CA     | 711.          | TABER           | F                        |                              | 7  |       |     |     |     |     |     |     |          |     |             |
| TAON SV       | JI PIL        |                 | 1445                     | PILE DAMAGE                  | :4   | <br>× |     |     | 4 4 | 1-1 | ::  |     | X        | ж.  | <u> </u>    |
|               | PIER NAME/NO. | MATERIAL:       | DAY: 1445                | NO M                         |  |       |     |     |     |     |     |     |          |     | ·           |
| LOCATION:     | A. I          |                 | OF                       | 14.77                        |  |       |     |     |     |     |     |     |          | ••• |             |
| LOCA          | PIER          | PILE            | TIME                     | T PILE                       | <del> </del>                                 | 4     | :   | 9   | 10  | 2.0 | 35  | 415 | · .      | Å   | 2           |
|               |               |                 |                          | E-i                          |  |       |     |     |     |     |     |     |          | ,   |             |

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NO=NONE,MIN=MINIMUM,MOD=HODERATE,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL

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10" YARINE GROUMS, CONCRETE

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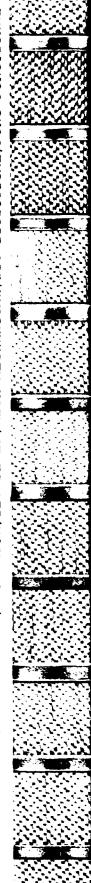
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|--------------------------------|---------------|------------|--------------------------------------|--|--|--|------|---|---|-----------------|---------------|---|---|---|------|---|
|                                |               | ω          |                                      |  | PILE LAS                                 |  |      |   |   |                 |               |   |   |   |      |   |
|                                | ET            | "H" PILE   | TIDE:                                | COMMENTS                                 | GPOWTH.                                  | GROUTH.                                |      |   |   |                 |               |   |   |   |      |   |
| Kand 8 A                       | Бянеет        | STEEL      | 1                                    | COM                                      | 19" MARINE GROWTH,<br>HAIRLINE GRACK 20" | 10" MARINE GROVTH, CONCPETE SOFFENING. |      |   |   |                 |               |   |   |   |      |   |
| DIVERS: PROHIA                 | FENDER        | X CONCRETE | WATER DEPTH FROM DATUM = GAUGE DEPTH | PENETR                                   |  |  |      |   |   |                 |               |   |   |   |      |   |
| DIVE                           |               |            | DATUM                                | 3  | <u> </u>                                 |  | '4   | • |   |                 |               |   |   |   |      |   |
| PT. 80                         | X BEARING     | EL SHEET   | rh From                              | DIMENSIONS<br>HGT   WIDT                 | 20.                                      |  |      |   |   |                 |               |   |   |   |      |   |
| 19 SFPT.                       | PILE TYPE:    | STEEL      | ER DEP                               | TYPE DAMAGE GAUGE<br>MECH BIO FUNC DEPTH | 201                                      | 21,                                    |      |   |   |                 |               |   |   |   |      |   |
| DATE:                          | PILE          | PIPE       | TAW _                                | FUNC                                     | ×  |  |      |   |   |                 |               |   |   |   | <br> |   |
| -                              |               | STEEL      |                                      | BIO                                      |  | ×                                      |      |   |   |                 |               |   |   |   |      |   |
|                                |               | L.S.       |                                      | TYFE                                     |  |  |      |   |   |                 |               |   |   |   |      |   |
| ۲                              |               | ER         | TIDE:                                | SEV                                      |  |  |      |   |   |                 |               |   |   |   |      |   |
| SLAND                          | 1117          | TIMBER     |                                      | MAL                                      |  |  |      |   |   |                 |               |   |   |   |      |   |
| וונטו                          | JI, PIE       |            | 1515                                 | HO III                                   |  |  |      |   |   |                 |               | ļ |   |   | <br> |   |
| ):: 31:                        | /NO.          | RIAL       | DAY:1515                             | EILE DAMAGE<br>TAM MOD MAJ               | 14                                       | ::                                     |      |   |   | <br>            |               |   |   |   | <br> |   |
| NOI                            | NAME          | MATERIAL:  | OF D                                 | NIN                                      |  |  |      |   |   |                 |               | • |   |   | <br> |   |
| ICCATION: MAKE MORTH ISLAMD CA | PIER NAME/NO. | P I I      | EXE                                  |  | <b>i</b>                                 | C                                      |      |   |   |                 |               |   |   |   | L    |   |
|                                |               |            |                                      | BENT PILE<br>NO. NO.                     |  | (%)                                    | <br> |   | - |                 |               |   | 4 |   | <br> |   |



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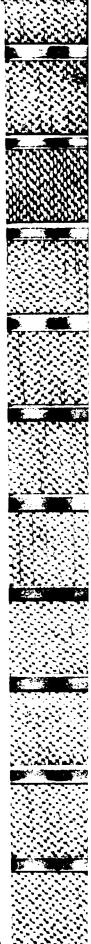
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| LOCA      | LOCATION: LAS YORTH ISLAND CA    | DATE:18 SIPT. 80                | DIVERS: MISTIVE & JOHNSTON                       |
|-----------|----------------------------------|---------------------------------|--|
| PIE       | PIER NAME/NO.JR TILP APPROACITAY | PILE TYPE: [X]BEARING           | 3 FENDER SHEET                                   |
| FA        | PILE MATERIAL: TIMBER STEEL      | PIPE STEEL SHEET                | STEEL PIPE STEEL SHEET X CONCRETE STEEL "H" PILE |
| TIME      | TIME OF DAY: 1515 TIDE:          | WATER DEPTH FROM D.             | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:     |
| ELLE PILE | abwied afit abwied alif          | MAGE CANGE DIMENSIONS OF DAMAGE | VS OF DAMAGE                                     |

|                                 | 8" MARINE GROWTH IF, CHUSSELS,<br>BARNICALS & SCALLOPS.) | 2        | =  | =             | <b>:</b>      | =          | =   | =   | =   | =              | =   | =    | =   | SCALLOPS.)                            |
|---------------------------------|--|----------|----|---------------|---------------|------------|-----|-----|-----|----------------|-----|------|-----|---------------------------------------|
| COMMENTS                        | RIME GROWTH CALS & SCALL                                 | <b>E</b> | =  | =             | =             | =          | =   | =   | =   | =              | =   | =    | =   | 8" MARINE GROVIE<br>BARNICALS & SCALI |
|                                 | 8" M/<br>LAR:1   | =        | =  | =             | =             | =          | =   | =   | =   | =              | =   | =    | =   | BARN                                  |
| OF DAMAGE<br>H PENETR           |  |          |    |               |               |            |     |     |     |                |     |      |     |                                       |
| SIONS O                         |  |          |    | ٠,            |               |            |     |     |     |                |     |      |     |                                       |
| DIMEN                           |  |          |    |               |               |            |     |     |     |                |     |      |     |                                       |
| GAUGE DIMENSIONS DEPTH HGT WIDT | <b>.</b><br>ق  | o`       | 2. | <b>.</b><br>د | φ <u>:</u>    | <b>.</b> 8 | 12* | 12. | 12. | 121            | 121 | 121  | 12, | 21,                                   |
| DAMAGE GAUGE<br>BIO FUNC DEPTH  |  |          |    |               |               |            |     |     |     |                |     |      |     |                                       |
| MECH B                          |  |          |    |               |               |            | -   |     |     |                |     |      |     |                                       |
| SEV                             |  |          |    |               |               |            |     |     |     |                |     |      |     |                                       |
| DALTAGE                         |  |          |    |               |               |            |     |     |     |                |     |      |     |                                       |
|                                 |  |          |    |               |               |            |     |     |     |                |     |      |     |                                       |
|                                 |  |          |    |               |               |            |     |     |     |                |     |      |     |                                       |
| INO                             | 24   | ж        | ×  | ×             | <b>&gt;</b> 4 | ; <        | ×   | ×   | *   | ;<<br><b>→</b> | X   | и    | ×   | ×                                     |
| NO. NI                          | -  | ű        | ၁  | IJ            | in 4          | ننا        | V.  | Б   | C   | i i            | i=1 | £i-q | Ú   | ~;                                    |
| BENT PILE<br>NO. NO.            |  | 1        | 1  | 1             | 1             | 1          | 2   | c i | :4  | C4             | 2   | ÷ 4  | ~1  | 1.7                                   |



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| THE STEEL PIPE STEEL SHEET  NAVA: CONSTRUCTOR 6-171ALION CENTR PORT HUENEME, CALIFORNIA 93043  DATE: 18 SEPT. 80  PILE TYPE: NBEARING  TIMBER STEEL PIPE STEEL SHEET | DIVERS: MESERVE & JOHNSTON  GRANDER SHEET  ACONCRETE STEEL "H" PILI |
|--|---|
| TIME OF DAY: 1545 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:   | = GAUGE DEPTH - TIDE:   |

|              | Tv.  | T   |     |     |     |     |     |     |     |     |     |     |     | v. 1  |
|--------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
|              | T. (TUSSEL   | =   | £.  |     | 14  |     |     | 44  | 14  | **  |     |     |     | T. (M'SSFI.   |
| CCMMENTS     | 10" MARINE GROUTH IE. CUSSELS BARRICALS & SCALLOPS.) | =   | =   |     | 11  |     | 11  | 11  | 11  | н   | •   |     | =   | 10" MARINE GROWTH II. (MUSSFLS,<br>BARNICALS & SCALLOPS.) |
|              | 10" MAR<br>BARKICA                                   | =   | ı.  | =   | ı   |     | =   | 11  | :   | ı   | 11  | **  | =   | 10" MAR<br>BARNICA  |
| DAMAGE       | FENETR   |     |     |     |     |     |     |     |     |     |     |     |     |   |
| 151          | H TOTA   |     |     | '•  | •   |     |     |     |     |     |     |     |     |   |
|              | 5  |     |     |     |     |     |     |     |     |     |     |     |     |   |
|              | 21,  | 21' | 21' | 21' | 21' | 20. | 201 | 21, | 20. | 201 | 21, | 21' | 20. | 21  |
| TPE DAMAGE   |  |     |     |     |     |     |     |     |     |     |     |     |     |   |
| TYPE DA      | מלו  |     |     |     |     | -   |     |     |     |     |     |     |     |   |
| 14 2         | 2<br>2<br>2<br>3                                     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| E DANMGE     |  |     |     |     |     |     |     |     |     |     |     |     |     |   |
| ETTE<br>STEE | 3  |     |     |     |     |     |     |     |     |     |     |     |     |   |
| IN           |  | ×   | ×   | >:  | ×   | ×   | :<  | ×   | >4  | ×   | :4  | ×   | :4  | >4  |
| (1)          | )<br>)<br>)<br>(1)                                   | Ú   | Ω   | . 1 | <   | ü   | ၁   | i)  | ы   | <   | :3  | U   | D   | pi-i  |
| ls∢          | ָרַ בְּי   | 'n  | 5   | i)  | Ş   | ເນ  | :3  | ယ   | 0   | 11  | 11  | 11  | 11  | 11  |



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| IT & DUNE              | в Пѕнеет                    | STEEL "H" PILE       | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: | COMMENTS  | 2" PAPNACLI GROUTH | =  | C" MARINE GROUT! IE. (MUSSELS<br>AND BARMACIES) |    | н н | = = | = = | STEEL PILE IS SUSPENDED 1' OF GOTTOM, IT IS SUPPOPTED BY FO | 12" DIA. wood PILES. |
|------------------------|-----------------------------|----------------------|--|---|--------------------|----|---|----|-----|-----|-----|---|----------------------|
| DIVERS: TRIGHT & DUNE  | FENDER                      | STEEL SHEET CONCRETE | UM = GAUGE                                   | GAUGE DIMENSIONS OF DAMAGE DEPTH HGT WIDTH PENETR |                    |    |   |    |     |     |     |   |                      |
|                        | BEARING                     | SHEET                | FROM DAT                                     | DIMENSIONS (<br>HGT   WIDTH                       |                    |    |   | ٠, |     |     |     |   |                      |
| DATE: 10 SEPT. 80      | TYPE: X BEARING             |                      | TER DEPTH                                    | GAUGE D.  | 11                 | 1. | 31  | 3. | 5,  | 5*  | 7*  | 7.  | 7.0                  |
| DATE                   | PILE                        | HEL PIPE             | WAY  | TYPE DAYAGE GAUGE<br>MECH BIO FUNC DEPTH          |                    |    |   |    |     |     |     | ×   |                      |
|                        | T PTIP                      | TERIS : a            | TIDE:  | SEV MECH  |                    |    |   |    |     |     |     | ×   |                      |
| TA CA.                 | r. Lova ru                  | TIMBES               |  | MAJ   | •                  |    |   |    |     |     |     |   |                      |
| LOCATION: FT. LOYA CA. | PIER NAME/NO. PT. LUNA FUIL | MATERIAL:            | OF DAY: 1000                                 | NO MIN MOD  | ×                  | и  | ×   | >  | ×   | х   | ж   |   | •                    |
| LOCATIC                | PIER W                      | PILE M               | TIME OF                                      | PILE NI<br>NO.                                    | Α.                 | ia | - :   | -  | V   | ภู  | 7   | 1   |                      |
|                        |                             |                      |  | £ .   |                    |    | T   |    |     |     |     |   |                      |

NO=NONE,MIN=MINIMUM,MOD=MODERATE,MAJ=MAJOR,SFV=SEVER,MECH=MBCHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL

" MARINE GROWTH IF (MUSSELS

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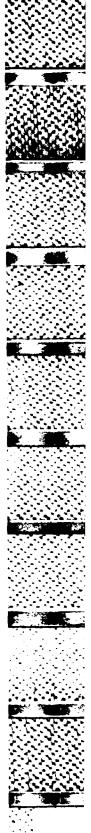
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NAVAL CONSTRUCTION BATTALION CENTER PORT HUENEME, CALIFORNIA 93043 UNDER AATER CONSTRUCTION TEAM TWO CENTRY MENTOR THE NAVY

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|                       | Знеет                           | STEEL "H" PILE        | - TIDE:                              |
|-----------------------|---------------------------------|-----------------------|--------------------------------------|
| URICHT & DUAN         |                                 | STEE                  | DEPTH                                |
| DIVERS: URIGHT        | FENDER                          | ]concrete [           | rum = GAUGE                          |
| DATE: 19 SIPT. 30     | PILE TYPE: XBEARING             | STEEL SHEET           | WATER DEPTH FROM DATUM = GAUGE DEPTH |
| DATE:                 | PILE 1                          | Baid                  | WATE                                 |
|                       | 23.                             | STEEL                 | TIDE:                                |
| LOCATION: PT. LOMA CA | PIER NAME/NO. PT. LOWA FULL FIE | PILE MATERIAL: TIMBER | TIME OF DAY: 1010                    |
| LOCA                  | PIER                            | PILE                  | TIME                                 |

|     |   | SEV MECH BIO | ONO. | 7' 7' 7' 7' 7' 7'                        | WIDTH | PENETR | COMMENTS  G" MARINE GROSTH  BAPNACLES & SCAL  " " " | T LOD                    |
|-----|---|--------------|------|--|-------|--------|---|--------------------------|
|     |   |              |      | 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7 |       |        |   |                          |
|     |   |              |      | 10' 10' 10'                              |       |        |   | <b>1 1 1</b>             |
| 1 1 | 7 | ٠            | ×    | 10'                                      |       |        | " " " " " " " " " " " " " " " " " " "               | " " GROUTH IF. (AUSSELS, |



CAUSH AATER CONDICTION TEAM TWO MANAL CONSTRUCTOR OF TALICA CENTER FORT HUENEME CALIFORNIA 93043 CHENANY 

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| reichte butt      |                   | STEEL "H" PILE       | PTH - TIDE:                    | COMMENTS                       | 6" MARTHE GROUTH IE. (BARMCLE<br>MUSSELS & SCALLOPS.) |            | 6" MARINE GRONTH IF. (MUSSILS).<br>BARNACLIS & SCALLOPS.) | =   | FOUR STEEL PILES PEPLACING THE | 6" MARITH CROSTE IE. CHUSELS.<br>BARMACLES & SCALLOPS.) | 11 11 11 |     |               |     |     |    |     | 6" WARINE GROUTH IL. CUSSFLS,<br>BARNACLES & SCALLOPS.) |
|-------------------|-------------------|----------------------|--------------------------------|--------------------------------|---|------------|---|-----|--------------------------------|---|----------|-----|---------------|-----|-----|----|-----|---|
| TETCHE<br>DIVERS: | FENDER            | STEEL SHEET CONCRETE | DEPTH FROM DATUM = GAUGE DEPTH | OF DAMAGE                      |   |            | 6"<br>BAE   | =   | 104<br>[30                     | 6"<br>BAI   | •        |     |               |     |     | •  | •   | 5"<br>5A1   |
| Id                | ARING             | EET                  | OM DATU                        | DIMENSIONS OF HGT WIDTH        |   |            |   | ٠,  |                                |   |          |     |               |     |     |    |     |   |
| F. 89             | TYPE: [X] BEARING | EEL SHE              | PTH FRO                        |                                | <del>                                     </del>      |            |   |     |                                |   |          |     |               |     |     |    | ·   |   |
| 19 SIPT.          | TYPE:             | []                   | WATER DE                       | GAUGE                          | 101   |            | 10.   | 101 | 101                            | 10,   | 10.      | 10. | 10.           | 101 | 201 | 25 | 201 | 251   |
| DATE:             | PILE              | Editor.              | WAT                            | DAWAGE GAUGE<br>BIOTEUNC DEPTH |   | ×          |   |     |                                |   |          |     |               |     |     |    |     |   |
|                   | TEP               | X STEEL              | ä                              | SEV MECH BI                    |   |            |   |     |                                |   |          |     |               |     |     |    |     |   |
|                   | LOYA FULL PILE    | TIMBER               | TIDE                           | <del> </del>                   |   | <b>;</b> 4 |   |     |                                |   |          |     |               |     |     |    |     |   |
| LOTA CA           |                   |                      | 1325                           | FILE DAMMGE                    |   |            |   |     |                                |   |          |     |               |     |     |    |     |   |
| 1.1               | PIER NAME/NO.FI.  | MATERIAL:            | DAY:                           | NO MIN IN                      | ×   |            | ; 4   | х   | X                              | Ж   | ×        | X   | <b>&gt;</b> 4 | ×   | >4  | ×  | ×   | Ж   |
| LOCATION          | ru >              |                      | OF                             | NI                             |   |            |   |     |                                |   |          |     |               | ,   |     |    |     |   |
| LOCA              | PIER              | PILE                 | TIME                           | PILE<br>NO.                    |   | د          | 1:  |     | V                              | រា  | ٧.       | В   | ۷             | æ   | ~   | а  | <   |   |
|                   |                   |                      |                                | NO.                            | 2   | <u>:</u> ] | 91  | 9   | 1                              | [7]   | 21       | 8   | <u>5</u>      | 61  | 2)  | 65 | .1  | 17  |



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UDDAR FRANCE OF THE WAY TO THE WAY TO THE WALLE CONSTRUCTION FAMILY OF THE PORT HUENEME, CALIFORNIA 93043

| 217                 | Знеет             | STEEL "H" PILE | - TIDE:                  | COMMENTS                                     | 6" MARINE CROWIN IE. (MOSSELS<br>NARNACLES & SCALLOPS.) |     | п п  |            |     |    | 11  |          | 11  |          | 11 11         | 11  |     | 6" MARTUE CROTTH IL. (MUSSELS,<br>BARMACLES & SCALLOPS,) |
|---------------------|-------------------|----------------|--------------------------|--|---|-----|------|------------|-----|----|-----|----------|-----|----------|---------------|-----|-----|--|
| T & DUNI:           | Ц                 | STE            | DEPTH -                  |  | 6" MAR<br>Barnac  | =   | ŧ    | :          |     | =  | 1   | :        |     | :        |               | 1   | =   | MARTA  |
| DIVERS: WPIGHT      | FENDER            | CONCRETE       | I = GAUGE                | DIMENSIONS OF DAMAGE<br>HGT   WIDTH   PENETR |   |     |      |            |     |    |     |          |     |          |               |     |     |  |
| DIV                 | RING              |                | WATER DEPTH FROM DATUM = | SIONS O                                      |   |     |      | ٠          |     |    |     |          |     |          |               |     |     |  |
| 80                  | BEA               | STEEL SHEET    | TH FRO                   | DIMEN  |   |     |      |            |     |    |     |          |     |          |               |     |     |  |
| In SEPT. 80         | TYPE: [X] BEARING | STE            | SR DEP1                  |  | 20.   | 25* | 201  | 25         | 201 | 25 | 201 | 251      | 201 | 251      | 201           | 25* | 201 | 251  |
| DATE: 10            | PILE '            | PIPE           | WAT                      | DAMAGE<br>BIO FUNC                           |   |     |      |            |     |    |     |          |     |          |               |     |     |  |
|                     | IEP               | X STEEL        |                          | TIPE DAMAGE GAUGE MECH BIO FUNC DEPTH        |   |     |      |            |     |    |     |          |     |          |               |     |     |  |
|                     | FULL PI           | TIMBER [       | TIDE.                    | EJISEV                                       |   |     |      |            |     |    |     |          |     |          |               |     |     |  |
| ry CV               | LOYA              | TIN            |                          | FILE DAWAGE<br>MIN MOD MAJ SEV               | ·   | -   |      |            |     |    |     |          |     |          |               |     |     |  |
| rr. LO:             | NAME/NO. PT.      | IAL:           | DAY: 1040                | FILE   |   |     |      |            |     |    |     |          |     | ·        |               |     |     |  |
| IOM:                | NAME/             | MATERIAL:      | OF DA                    | NI NO  | ×   | ×1  | ×    | ۶ <b>۹</b> | ÷4  | ×  | ×   | :<       | ;<  | *        | <b>&gt;</b> ; | ×   | ×   |  |
| LOCATION: PT. LOUGH | PIER N            | PILE !         | TIME (                   | PILE NO.                                     | <   | ā   | 4    | а          | ·Ş  | ra | -:  | <b>a</b> | <   | <u>-</u> | • :           | 23  | <   | ::2  |
|                     |                   |                |                          |  | 22  | 2   | - 52 | 52         | 24  | 24 | 25  | 25       | 2c. | 26       | 27            | 27  | 28  | 23   |



UPPTAKT MENT OF THE MAY TO UNDERWATER CONSTRUCT ON TEAM TWO NAVAL CONCINCTION BATTALION CENTER PORT HUENEME CALIFORNIA 93043

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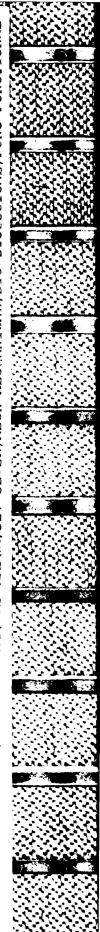
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| LOCATION: FT LOWA CA   | DATE: 1 | DATE: 19 SEPT. 80 DE          | DIVERS: THICHT & DUNN                        |
|--|---------|-------------------------------|--|
|  | }       |                               |  |
| PIER NAME/NO.PT. LOIN FULL FILL  | PILE TY | PILE TYPE: X BEARING          | FENDER SHEET                                 |
| PILE MATERIAL: TIMBER STEEL  | PIPE    | STEEL PIPE STEEL SHEET        | CONCRETE STEEL "H" PILE                      |
| TIME OF DAY: 1350 TIDE:  | WATER   | DEPTH FROM DATE               | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: |
| TOWNED THE DAMES THE PARTY OF T | 1       | REPARED BY SNOTSNEET CLEDIAGE | OF DAMAGE                                    |

| COMMENTS                               | 6" MARILE CROWTH IE. (MUSSELS, | 11 11     |     |     | ======================================= | 6" MARINE GROUTH IL. (MUSSELS, |              |   |      |  |  |
|--|--------------------------------|-----------|-----|-----|---|--------------------------------|--------------|---|------|--|--|
| OF DAMAGE                              | +                              |           |     |     | •                                       |                                |              |   |      |  |  |
| SIONS                                  |                                |           |     | ٠,  |   |                                |              |   |      |  |  |
|  |                                |           |     |     |   |                                |              |   |      |  |  |
| DAWAGE IGAUGE                          | 20.                            | 25,       | 20. | 251 | 20.                                     | 251                            |              |   |      |  |  |
| DAMAGE<br>P-O PHACE                    |                                |           |     |     |   |                                | 2112         |   |      |  |  |
| MECHIA                                 |                                |           |     |     |   |                                | TION OF PITE |   |      |  |  |
| CFV,                                   |                                |           |     |     |   |                                | AID CLC      | i |      |  |  |
| PILE DAMAGE                            |                                |           |     | -   |   |                                | 1:1          |   | <br> |  |  |
| PILI<br>MININ                          |                                |           |     |     |   |                                |              |   |      |  |  |
| NI                                     | 2 >4                           | ;<        | 24  | 54  | X                                       | ×                              |              |   |      |  |  |
| BENT PILE                              |                                | <b>13</b> | ٠:  | .2  | <:                                      | 21                             |              |   |      |  |  |
| 11111111111111111111111111111111111111 | 5                              | ຄ         | 30  | 3.  | 31                                      | 31                             |              |   |      |  |  |



DEPARTMENT OF THE NAVY
UNDERWATER CONTRUCTION TEAM TWO
NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME CALIFORNIA 93043

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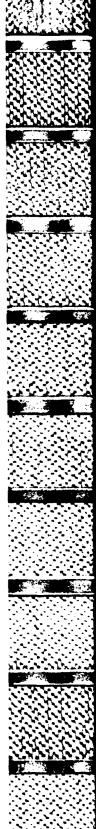
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| VL & JOHNSTON              | телет Принет                    | STEEL "H" PILE                   | DEPTH - TIDE:                               |  |
|----------------------------|---------------------------------|----------------------------------|---|--|
| DIVERS: MISERVL & JOHNSTON | FENDER                          | CONCRETE                         | NTUM = GAUGE                                |  |
| DATE: 19 SUPT. 80          | PILE TYPE: X BEARING            | PIPE STEEL SHEET X CONCRETE      | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE |  |
| LOCATION: PT. LOTA CA      | PIER NAME/NO.PT. LONA FULL FILE | PILE MATERIAL: TIMBER STEEL PIPE | DAY: 1345 TIDE:                             |  |
| LOCATION                   | PIER NAM                        | PILE MAT                         | TIME OF DAY: 1345                           |  |

|                         | _6  |     |             |            |     |             |     |             |     |                   |            |     |    |   |
|-------------------------|---|-----|-------------|------------|-----|-------------|-----|-------------|-----|-------------------|------------|-----|----|---|
|                         | 6-8" MARINE GPOUTH IF. (NUSSELS, BARNACLES & SCALLOPS.) |     | :           | =          |     | 11          | 8   | =           | =   | 11                | 11         | 11  | 14 | (MUSSELS,<br>S.)  |
| COMMENTS                | II: GPOUTH  |     | =           | =          | ŧ   | 14          | I.  |             | :   | 2                 | 1          | ıı  | =  | E SCALLOP   |
| CO                      | 6-8" MARINE GPOUTH IE.                                  | =   | 11          | £          | ı   | 14          | 16  |             |     | ı.                | н          | ı   | 2  | 6"MARINE CROPTH IE. (MUSCELS,<br>PARMACLES & SCALLOPS.) |
| F DAMAGE<br>PENETR      |   |     |             |            |     |             |     |             |     |                   |            |     |    | C E   |
| DIMENSIONS OF HGT WIDTH |   |     |             | ٠.         |     |             |     |             |     |                   |            |     |    |   |
| 1 1                     |   |     |             |            |     |             |     |             |     |                   |            |     |    |   |
| IGAUGE<br>TOPPTH        | 22.   | 24. | <b>3</b> 9. | 284        | 30. | 321         | 22. | 24"         | 261 | 281:              | 30.        | 32. | 22 | 14.   |
| DAWAGE<br>BIO FUNC      |   |     |             |            |     |             |     |             |     |                   |            |     |    |   |
| TIFE                    |   |     |             |            |     |             |     |             |     |                   |            |     |    |   |
| DAMAGE<br>OD MAJ SEV    | -   |     |             |            |     |             |     |             |     |                   |            |     |    |   |
| PILE DAM                |   |     |             |            |     |             |     |             |     |                   |            |     |    |   |
| N I NO M                | и   | )-t | ).t         | ×          | ×   | <b>\$</b> 4 | ×   | <b>\$</b> : | :4  | ;:4<br>- <b>1</b> | <b>+</b> 4 | ×   | ×  | ×   |
| PILE<br>NO.             | -4  | -2  | U           | ۵          | ٠.4 | j           | r., | :a          | ပ   | Ŋ                 | -1         | f-  | <  | :.3   |
| ELY.C.                  | 1   | ••  |             | <b>,</b> 4 | 1   | 1           | C I | 2           | 3   | 61                | ~1         | C1  | 3  | ပ   |



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PAGE RWATER CONSTRUCTION TEAM TWO
MAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME, CALIFORNIA 93043

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| WE & JOHNSTON        | л Биеет               | STEEL "H" PILE   | DEPTH - TIDE:              | COMMENTS  | SAPWACIES & SCALLOPS.)                           |      |      |            | н н н      | п п | п п   | п п |      | п п | u u u | 11 11 | # # #   |
|----------------------|-----------------------|------------------|----------------------------|---|--|------|------|------------|------------|-----|-------|-----|------|-----|-------|-------|---------|
| DIVERS: MISTRYL      | ARING FENDER          | SET CONCRETE     | FROM DATUM = GAUGE DEPTH - | SIONS OF DAMAGE<br>WIDTH   PENETR   |  |      |      | •          | •          |     |       |     |      |     |       |       |         |
| DATE: 19 SEFT. 80    | PILE TYPE: XBEARING   | PIPE STEEL SHEET | WATER DEPTH FRC            | GAUGE   | 261  | 28"  | 301  | 32.        | 22.        | 24. | 26*   | 28. | 30.  | 32* | 22*   | 24"   | 26*     |
|                      | LONA FUIL PILE        | TIMBER STEEL F   | TIDE:                      | DAMAGE TYPE DAMAGE OF ONLY OF |  |      |      |            |            |     |       |     |      |     |       |       |         |
| LOCATION: FT. LOW CA | PIER NAME/NO.PT. LOIL | MATERIAL:        | OF DAY: 1045               | NI NO MIN M   | p4   | :4   | м    | <b>;</b> ; | X          | X   | Х.    | 2.0 | 24   | X   | Х     | ×     | м       |
| LOCA                 | PIER                  | PILE             | TIME                       | BENT PILE   | <del>                                     </del> | 3 10 | 3 I. | ρ.<br>Ο    | 4 <b>A</b> | 5 F | 7 7 7 | d 5 | 4 I. | 4 F | -:    | ī.    | j.<br>O |
|                      |                       |                  |                            | kg >2   |  | , '  | ` '  | ,          | 7          | 7   | 7     | ,   |      | 7   | ,     |       | · '     |

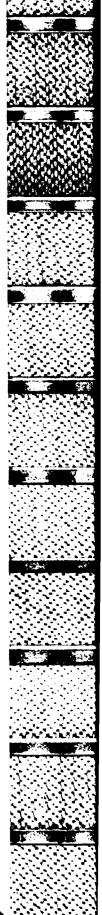
NO=NONE,MIN=MINIMUM,MOD=MODERATE,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL

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6" MARINE GROWTH IF. CHUSSELS.

FARMACLES & SCALLOPS.)



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NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME CALIFORNIA 93043

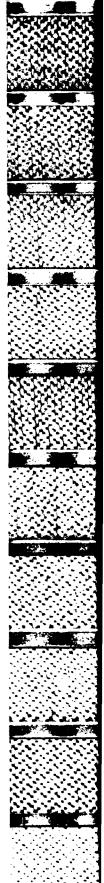
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| A CA DATE: 19 SHPT. 80 DIVERS: MISERVE & JOHNSTON | LONIA FULL PTI.P PILE TYPE: *BEARING FENDER SHEET | TIMBER STEEL PIPE STEEL SHEET CONCRETE STEEL "H" PILE | TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: |
|---|---|---|--|
| LOCATION: PT. LOVA CA                             | PIER NAME/NO.FT. LONA FULL PTE.P                  |   | TIME OF DAY: 1945 TIDE:                            |

| COMMENTS  | 6" MARTNE GROWTH IL. (MUSSELS,<br>BARNACLES & SCALLOPS.) | 11      | 11  | 11  |     | 11  |     |     | =   |      | =  |     | =          | 6" MARINE GROUTH IE. ("USSILS, |
|---|--|---------|-----|-----|-----|-----|-----|-----|-----|------|----|-----|------------|--------------------------------|
| COV   | 6" MARTNE<br>BARNACLES                                   | -       | :   | 2   | =   | 14  | =   | =   | =   | =    | E  | =   | Ξ          | TKIAVA9                        |
| OF DAMAGE   |  |         |     |     |     |     |     |     |     |      |    |     |            |                                |
| SIONS O   |  |         |     | ۲,  |     |     |     |     |     |      |    |     |            |                                |
| DIMEN   |  |         |     |     |     |     |     |     |     |      |    |     |            |                                |
| DAMAGE GAUGE DIMENSIONS<br>BIO FUNC DEPTH HGT WIDTH | 301  | 321     | 221 | 24' | 26' | 281 | 30, | 32, | 22* | . 72 | 26 | 284 | 30.        | 32.                            |
| DAMAGE<br>BIO FUNC                                  |  |         |     |     |     |     |     |     |     |      |    |     |            |                                |
| ECH   |  |         |     |     |     |     |     |     |     |      |    |     |            |                                |
| T<br>  SEV M  |  |         |     |     |     |     |     |     |     |      |    |     |            |                                |
| DAMAGE<br>OD MAJ                                    |  |         |     |     |     |     |     |     |     |      |    |     |            |                                |
| FILE DAMAGE<br>MIN   MOD   MAJ                      |  |         |     |     |     |     |     |     |     |      |    |     |            |                                |
| ON  | м  | : 4     | и   | ×   | >4  | ;:  | ;ব  | ;;  | :A  | ×    | :4 | ; ; | <b>;</b> : | ; <                            |
| LE NI   |  |         |     |     |     |     |     |     | -   |      | O. |     |            |                                |
| T PILE  |  | <u></u> |     | -a  | Ü   | ٦   | .4  | ì   |     |      |    | £3  |            | <br>                           |
| BENT<br>NO.   | ار   | ٠٠      | ر.  | ر . | 2   |     | νε  | ے   | 7   | 7    | 7  | 7   | 7          | 1.                             |



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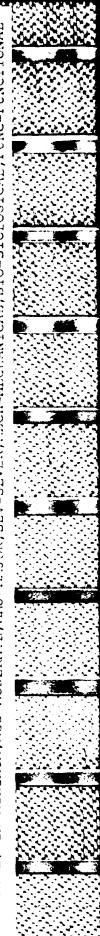
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MAVAL CONSTRUCTION BUTTALION CENTER PORT HUENEME, CALIFORNIA 93043 PNDERWATER COASTROOT ON TEAM TWO

| DIVERS: "4" SERVE & JOHNSTON | FENDER SHEET                   | ETE STEEL "H" PILE                   | AUGE DEPTH - TIDE:                           | MAGE                       |
|------------------------------|--------------------------------|--------------------------------------|--|----------------------------|
| DATE: 19 SIPT. 80 DIVERS:    | PILE TYPE: [X] BEARING []F]    | STEEL SHEET NCONCRETE STEEL "H" PILE | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: | GAUGE DIMENSIONS OF DAMAGE |
| LOCATION: TT. LONG. GA DATE: | PIER NAME/NO.FT. LOW FULL FULT | PILE MATERIAL: TIMBER STEEL PIPE     | TIME OF DAY: 1045 TIDE: WATER                | BOWWED BANKE BOWWED BALLS  |
| S                            | PI                             | PI                                   | H  | ETTE EN                    |

| COMMENTS             | 6" MARIMI GROFTH IE. (MUSSFLS,<br>BAPNACLIS & SCALLOPS,) | =   | =   | =   | =   | =   |     | =   | =  | 1          | =   | =             | =  | 6" MARRIE CROUTE IF. (MESELIS, DARRACLES & SCALLOPS.) |
|----------------------|--|-----|-----|-----|-----|-----|-----|-----|----|------------|-----|---------------|----|---|
|                      | BAPNACLUS  | Ξ   | =   | =   | =   | =   | =   | =   | =  | =          | :   | 11            | =  | 6" MARINE BARIAGENS                                   |
| OF DAMAGE            |  |     |     |     |     |     |     |     |    |            |     |               |    |   |
| SIONS                |  |     |     | ٠,  |     |     |     |     |    |            |     |               |    |   |
|                      |  |     |     |     |     |     |     |     |    |            |     |               |    |   |
| GAUGE<br>DEPTH       | 22   | 24. | 261 | 28. | 30. | 32. | 22, | 24. | 26 | 132        | 311 | 32*           | 22 | 24.   |
| 닏읻                   | -  |     |     |     |     |     |     |     |    |            |     |               |    |   |
|                      |  |     |     |     |     |     |     |     |    |            |     |               |    |   |
| TYPE                 |  |     |     |     |     |     |     |     |    |            |     |               |    |   |
| SEV                  |  |     |     |     |     |     |     |     |    |            |     |               |    |   |
| DAMAGE<br>OD MAJ     |  |     |     |     |     |     |     |     |    |            |     |               |    |   |
| ωΣ                   |  |     |     |     |     |     |     |     |    |            |     |               |    |   |
| FILE<br>NO MIN N     | ×  | :4  | ×   | :4  | X   | ;4  | :4  | и   | >4 | 24         | 54  | <b>&gt; 4</b> | 14 | ; :   |
| HN                   |  |     |     |     |     |     |     |     |    | •          |     |               |    |   |
| PILE<br>NO.          | -4   | i4  | 3   | G   | Ĭ.  | 7.  | Ą   | ฉ   | ٦  | i.         | . 1 | ·II           | +4 | 1,  |
| BENT PILE<br>NO. NO. | ťΣ   | ပ   | Ç:) | ငာ  | င   | 9   | 5   | Ú   | ,  | <b>3</b> 5 | . ` | 51            | 15 | 10  |



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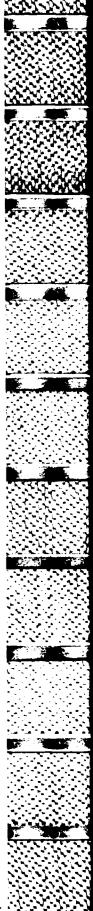
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| LOCATION: PT. LOTA GA            | DATE: 10 SFFT, 90              | DIVERS: "ISFPUT & JOHTSTON                      |
|----------------------------------|--------------------------------|---|
| PIER NAME/NO. I'T LOTA FUEL FILE | PILE TYPE: BEARING             | S SHEET   |
| PILE MATERIAL: TIMBER STEEL      | PIPE STEEL SHEET               | STEEL PIPE STEEL SHEET XCONCRETE STEEL "H" PILE |
| TIME OF DAY: 1045 TIDE:          | WATER DEPTH FROM DA            | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:    |
| TIPLE DAMAGE TIPE DAMAGE         | AGE DANGE DIMENSIONS OF DAMAGE | IS OF DAMAGE!                                   |

|                                       | USSITE.   |     |     | _       |    |     |        |     |     |                    |     |     |         | STIISS                            |
|---------------------------------------|---|-----|-----|---------|----|-----|--------|-----|-----|--------------------|-----|-----|---------|-----------------------------------|
|                                       | 1E. (H  | Ξ   | =   | =       | =  | =   | -      |     | =   | =                  |     | =   | =       | T. (M                             |
| COMMENTS                              | CROUTH IE. (II  | £   | Ξ   | =       | =  | =   | 2      | =   | =   | =                  | Ξ   | Ξ   | =       | CPOUTH IT. (MUSSILLS & SCALLOPS.) |
| OO                                    | 6" MARTHE GROUTH IE. (THISSTLE BARNACLIE & SCALLOPS.) | 2   | ı   | Ξ       | =  | £   | "      | 11  | -   | 44                 | ı   | =   | ı       | 6" MARTNE<br>BARHACLES            |
| DIMENSIONS OF DAMAGE HGT WIDTH PENETR |   |     |     |         |    |     |        |     |     |                    |     |     |         |                                   |
| S OF                                  | <del> </del>  |     |     |         | •  |     |        |     |     |                    |     |     |         |                                   |
| SIONS WIDTH                           | <del> </del> -  |     |     | '•      |    |     |        |     |     |                    |     |     |         |                                   |
| DIMEN                                 |   |     |     |         |    |     |        |     |     |                    |     |     |         |                                   |
| GAUGE<br>DEPTH                        | 36.   | 28. | 301 | 32.     | 22 | 241 | 26     | 281 | 30. | 32*                | 22. | 24. | 26      | 28'                               |
| NO.                                   |   |     |     |         |    |     |        |     |     |                    |     |     |         |                                   |
| DAMAGE<br>BIO FU                      |   |     |     |         |    |     |        |     |     |                    |     |     |         |                                   |
| TYFE                                  |   |     |     |         |    |     |        |     |     |                    |     |     |         |                                   |
| SEV                                   |   |     |     |         |    |     |        |     |     |                    |     |     |         |                                   |
| MAJ                                   |   |     |     |         |    |     |        |     |     |                    |     |     |         |                                   |
| PILE DAMAGE<br>MIN   MOD   MAJ        |   |     |     |         |    |     |        |     |     |                    |     |     |         |                                   |
| PILL                                  |   |     |     |         |    |     |        |     |     |                    |     |     |         |                                   |
| ON.                                   | й   | :4  | :<  | ×       | ;; | ) t | :∢     | ÿ   | ::  | :ব<br><del>-</del> | :4  | :4  | Ж       | : 4                               |
| E NI                                  |   |     |     |         |    |     |        |     |     |                    |     |     |         |                                   |
| BENT PILE<br>NO. NO.                  | 1   |     | -   | <u></u> | :  | -2  | ان<br> | u   | -1  | ţı.                | <   | -3  | ပ<br>—— | <u>-</u>                          |
| BEXT.                                 | 10  | 2   | -1  | 2       | 11 | 11  | 11     | =   | 11  | 11                 | 12  | 2   | 1.7     | 1                                 |



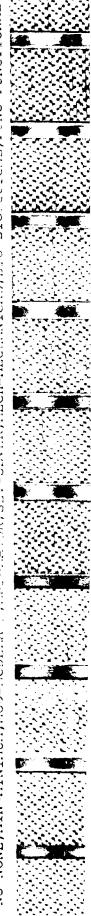
NATAL CONCINENCENTABION CENTER ALTERNATIVE CONSTRUCTION TEAM TWO PORT HLENEME CALIFORNIA 93043

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|     | LCCA       | OF E       | LCCATION: IT. LOWA CA                           | DATE: 19 SILT.              | 80               | DIVERS: "HSLPPT       | PWE & JOHNSTON                              | 102  |      |
|-----|------------|------------|---|-----------------------------|------------------|-----------------------|---|--|------|
|     | PIER       | MA         | C'Y TUIL PILE                                   | PILE TYPE:                  | BEARING          | FENDER                | R SHEET                                     | I.   |      |
|     | PILE       |            | THEER STEET                                     | PIPE STE                    | STEEL SHEET      | X CONCRETE            | STEEL "                                     | HH" PILE   |      |
|     | TIME       | OF         | DAY: 1045 TIDE:                                 | WATER DE                    | DEPTH FROM DATUM | UM = GAUGE            | рертн - т                                   | TIDE:  |      |
|     | PILE<br>NO | H          | NOTATIVE DAMAGE SEVINENT SEVINENT NOTATIVE CARE | HIGHT DESCRIPTION OF STREET | I DIMENSIONS C   | OF DAMAGE<br>H PENETR | 1   | COMMENTS   | 1    |
| CI  |            | <u> </u>   |   | 301                         |                  |                       |   | BAPNACLES & SCALLOPS.)                                   | 3'11 |
| 5.1 | <b>\$</b>  |            |   | 32*                         |                  |                       | =   | =  |      |
| ()  | <b>*</b> : |            | 14  | 22.                         |                  |                       | £   | =  |      |
|     | i1.        | <b>;</b> : |   |                             | •                |                       |   |  |      |
| 3   | ķ.,        |            | : <   | 32.                         |                  | •                     | ı   |  |      |
|     | -:         |            | 34  | 22                          |                  |                       | <b>:</b>                                    |  |      |
| 1.  | 74         |            | >4  | . 77                        |                  |                       | 10" MAPTNE CPOUTH IE<br>BAPWACHE & SCALLOPS | 19" MAPTNE CPOUTH IF. (MUSELS<br>BAPWACHES & SCALLOPS.)  | 577  |
|     | į,         |            | 2-4   | 26"                         |                  |                       | =   | =  |      |
|     |            |            | ×   | 284                         |                  |                       | :   | =  |      |
| ~7  | . 1        |            | >:<br>•   | 30.                         |                  |                       |   | =  | ļ    |
| .;  | Ы          |            | : 4   | 32.                         |                  |                       | =   | =  |      |
| 17  | ~:         |            | 24  | 22.                         |                  |                       | =   | =  |      |
| ıη  | 1-3        | ×          |   |                             |                  |                       |   |  |      |
| ر.  | Į.         |            | X   | 321                         |                  |                       | 10" MAPTHE C<br>BARNACLES &                 | 10" MAPIME GPOUTH II, PITSSTES<br>BARMACLES & SCALLOPS.) |      |
| 1   |            |            |   |                             |                  |                       |   |  |      |

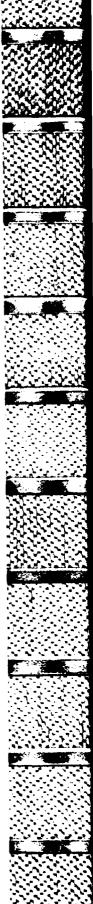


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| - オビス・リー | CWI WYELK .        | STALION CENTER                      | FURNIA 93043                   |
|----------|--------------------|-------------------------------------|--------------------------------|
|          | PADEFLATER CONSING | NAVAL CONSTRUCTION BY TALLON CENTER | FORT HUENEME, CALIFORNIA 93043 |

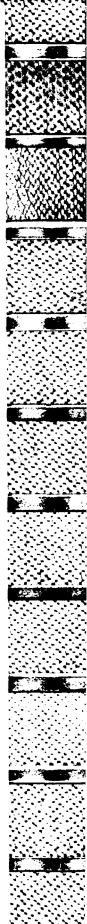
| WE & JOHNSTON  | з Пзнеет     | STEEL "H" PILE | DEPTH - TIDE: | COMMENTS                   | IO" MARTHE GROWTH IE. (MUSSILS<br>HARNACLES & SCALLOPS.) | E E | = =                                   | н н н | = = | 1 1 | 11 11 |       |     |                       | = = |              | =     | 10" MARIJI GPOGILI IF. (PUSSITA |  |
|----------------|--------------|----------------|---------------|----------------------------|--|-----|---------------------------------------|-------|-----|-----|-------|-------|-----|-----------------------|-----|--------------|-------|---------------------------------|--|
| DIVERS: MISHRY | FENDER       | CONCRETE       | TUM = GAUGE   | S OF DAMAGE<br>TH   PENETR |  |     |                                       |       |     |     |       |       |     |                       |     |              |       |                                 |  |
| 87             | BEARING      | SHEET [        | FROM DATUM    | DIMENSIONS<br>HGT WIDTH    |  |     |                                       | ۲۰    |     |     |       |       |     |                       |     |              |       |                                 |  |
| 19 SIPT. 8     | TYPE:        | STEEL          | рертн         | GAUGE<br>DEPTH             | 22,  | 241 | 26'                                   | 28.   | 30, | 32. | 22.   |       | 32* | 22.                   | 24* | 26.          | \$80  | 30.                             |  |
| DATE:          | PILE         | EL PIPE        | WATER         | DAWAGE<br>BIO FUNC         |  |     | · · · · · · · · · · · · · · · · · · · |       |     |     |       |       |     |                       |     |              | i<br> |                                 |  |
|                | T PIEP       | SR STEEL       | TIDE:         | SEV MECH                   |  |     |                                       |       |     |     |       |       |     |                       |     |              |       |                                 |  |
| LONIA CA       | T. LOYA FUIL | TIMBER         | 12391         | PILE DAMAGE                |  |     |                                       |       |     |     |       |       |     |                       |     |              |       |                                 |  |
| F T.           | NAME/NO. PT. | MATERIAL:      | OF DAY: 12    | NI NC MIN                  | ×  | ж   | ×                                     | ×     | সৰ  | :4  | >4    | 7     | ×   | ;:4<br>- <del>•</del> | 14  | ×            | 14    | K                               |  |
| LCCATION:      | PIER         | PILE           | TIME          | PILE                       | <:   | 5.2 | C                                     | ıa    | -2  | f-a | ¥     | 7 - 1 | i-  | *.                    | 3.  | ٠            | £     |                                 |  |
|                |              |                |               | N. C.                      |  | 2   | 16                                    | 10    | 2   | 16  | 17    | 17    | 17  | ပ<br>မ                | 1 2 | <br>  21<br> | 1     | 2                               |  |



LO ANTHERA CONTRACTOR NAVE
VINCERANTER CONTRACTOR TEAM TWO
NAVA, CONTRACTOR CALFORNIA 93043
PORT HUENEME CALFORNIA 93043

|                                  | PORT HUENEME CALIFORNIA 93043                    |
|----------------------------------|--|
| LOCATION: Fr. LOWA CA            | DATE: DATE: DIVERS:                              |
| PIER NAME/NO, IT. LOYA FULL TILR | PILE TYPE: [X]BEARING []FENDER [SHEET            |
| PITE MATERIAL: TIMBER STEEL      | STEEL PIPE STEEL SHEET X CONCRETE STEEL "H" PILE |
| TIME OF DAY: 1230 TIDE:          | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:     |

|                  | SSFLS  |        |     |     |        |     |          |             |     |                       |     |          |     | SELS  |
|------------------|--|--------|-----|-----|--------|-----|----------|-------------|-----|-----------------------|-----|----------|-----|---|
|                  | II IE. (M<br>LOPE.)                                      | =      |     |     | ı      | =   | :        |             | =   | =                     | =   |          | =   | ors.)   |
| COMMENTS         | E CPOUT  |        |     | ı   |        | =   | :        | 11          | 1   | =                     | =   | :        | Ξ   | I GROWIII   |
| 00               | 19" MARTNE CROUTH IE. (MUSSELS<br>BARNACLES & SCALLOPS.) | =      |     | £   | 4      | ŧ   |          | #           |     | ε                     | Ξ.  |          | :   | 10" MARIND GROWTH IT. CIUSSELS,<br>MARMAGLES & SCALLOPS.) |
| DAMAGE           |  |        |     |     |        |     |          |             |     |                       |     |          |     |   |
| 3 -              |  |        |     |     | •      |     |          |             |     |                       |     |          |     |   |
| SIONS (          |  |        |     | ١.  |        |     |          |             |     |                       |     |          |     |   |
| DIMEN            |  |        |     |     |        |     |          |             |     |                       |     |          |     |   |
| DEPTH HGT WIDTH  | 32 '   | 221    |     | 321 | 221    | 24. | 26,      | 281         | 30. | 32*                   | 221 |          | 32* | 22.   |
| N S              |  |        |     |     |        |     |          |             |     |                       |     |          |     |   |
| DAMAGE<br>BIO FU |  |        |     |     |        |     |          |             |     |                       |     |          |     |   |
| MECH             |  |        | -   |     |        |     |          |             |     |                       |     |          |     |   |
| SEV              |  |        |     |     |        |     |          |             |     |                       |     |          |     |   |
| DAMMGE<br>OD MAJ |  |        |     |     |        |     |          |             |     |                       |     |          |     |   |
| 40.1             |  |        |     |     |        |     |          |             |     |                       |     |          |     |   |
| PILE<br>MINIT    |  |        |     |     |        |     |          |             |     |                       |     |          |     |   |
| ON               | ;<   | ;;<br> |     | ;<  | ×      |     | : <      | ;ج          | ×-  | ابر<br><del>خ</del> - |     |          | 14  | и   |
| NI NI            |  |        | , j |     |        |     |          |             |     |                       |     | , i = 0. |     |   |
| PENT PILE        | L  |        | - i | F   |        | -3  | <u>ں</u> | <i>(</i> 2) |     | £.,                   |     | ا تر     | £,  |   |
| 2                | 1.   | ر 1    | 13  | 51  | -<br>- | Ŝ   | -1       | 57          | :4  | E                     | 21  | 7.1      | 17  | 54<br>51  |



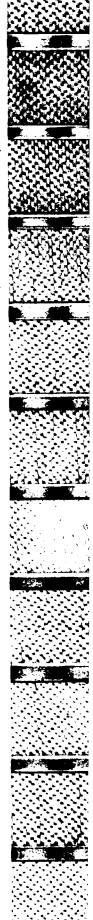
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UNDERHATE CONSTRUCT ON TEAM TWO
NAVAL CONTRUCTOR BATTALION CENTER
FORT HUENEME CALIFORNIA 93043

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| LOCATION: PT. LOTA GA            | DATE: 19 SEPT. 80 DIVERS: PURAN & NORMSON    |
|----------------------------------|--|
| PIER NAME/NO. FT. LOWA FULL PIEP | PILE TYPE: X BEARING FENDER SHEET            |
| PILE MATERIAL: TIMBER STEEL      | PIPE STEEL SHEET XCONCRETE STEEL "H" PILE    |
| TIME OF DAY: 1230 TIDE:          | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: |

| 7 2 | NON        | MIN | FILE DAMAGE |   | SEV N | MECH B | BIO FUN | BIO FUNC DEPTH | DIMENSIONS<br>HGT WIDTE |    | OF DAMAGE | 1011 477                | COMMENTS  | 11. (4)11.5 |
|-----|------------|-----|-------------|---|-------|--------|---------|----------------|-------------------------|----|-----------|-------------------------|---|-------------|
|     | F4         |     |             |   |       |        |         | 24.            |                         |    |           | NARNACIJES (            | MARNACLES & SCALLOPS.)                                |             |
|     | :<         |     |             |   |       |        |         | 26             |                         |    |           | =                       | =   | =           |
| -   | ×          |     |             | - |       |        |         | 281            |                         |    |           | :                       |   | =           |
|     | :4         |     |             |   |       |        |         | 30.            |                         | ٠, |           |                         |   | =           |
|     | :<         |     |             |   |       |        |         | 32,            |                         |    |           | =                       | н   | =           |
|     | ×          |     |             |   |       |        |         | 221            |                         |    |           | *                       | =   | =           |
| >4  |            |     |             |   |       |        |         |                |                         |    |           |                         |   |             |
|     | <b>;</b> ; |     |             |   |       |        |         | 32,            |                         |    |           | ı                       |   | =           |
|     | :<         |     |             |   |       |        |         | 221            |                         |    |           | ŧ                       | **  | =           |
|     | :4         |     |             |   |       |        |         | 24.            |                         | :  |           | =                       | =   | =           |
|     | :ব         |     |             |   |       |        |         | 26             |                         | !  |           | =                       | Ε   | =           |
|     | :4         |     |             |   |       |        |         | 28             |                         |    |           | н                       | Ε   |             |
|     | :∢         |     |             |   |       |        |         | 30.            |                         |    |           | ı                       | Ξ   | Į.          |
|     | 14         |     |             |   |       |        |         | 32,            |                         |    |           | 10" MARINE<br>BARNACLES | 10" MARINE GPOUTH IE. (MUSSELS BARNACLES & SCALLOPS.) | MISSELS     |



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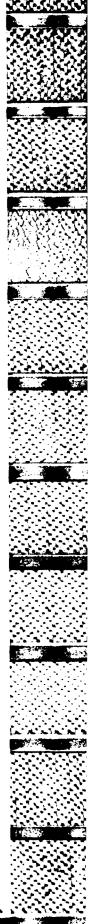
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| LOCATION: FT. LOYAL CA           | DATE: 19 SIPT. 10 DIVERS: PURAH & JOHNSON    |
|----------------------------------|--|
| PIER NAME/NO. PT. LOTA TULL FIER | PILE TYPE: X BEARING FENDER SHEET            |
| PILE MATERIAL: TIMBER STEEL PIPE | PIPE STEEL SHEET X CONCRETE STEEL "H" PILE   |
| TIME OF DAY: 1230 TIDE:          | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: |

|   |               |             | လို   |                |     |     |           |     |     |     |     |          |           |     |  | v.  |
|---|---------------|-------------|---|----------------|-----|-----|-----------|-----|-----|-----|-----|----------|-----------|-----|--|---|
|   |               |             | 10" MARINE CROWTH IE. (MUSSILS BARNACLES & SCALLOYS.) |                | 2   | 11  | и         | #   | #   | =   | =   | =        |           | u   |  | 10" MARINE GROWTH IE. (MUSSELS,<br>BARMACLES & SCALLOPS,) |
|   | 67.1          | COMMENTS    | SCALLOR   |                | 2   | =   | 2         | =   | =   | =   | =   | <b>.</b> |           | E . | =                                      | SCALLOPS  |
|   | 1100          |             | 10" MARINE CROWTH IE. BARNACLES & SCALLOPS.           |                | ı   | Ξ   | =         | =   | 11  | =   | *   | E        |           |     | Ξ                                      | 10" MARINE CROWTH IE.<br>BARMACLES & SCALLOPS.            |
|   | -             | Γ-          | 10  |                |     |     |           |     |     |     |     |          |           |     |  | IO"   |
|   | DAMAGE        | PENETR      |   |                |     |     |           |     |     |     |     |          |           |     |  |   |
|   | OF            | HJ          |   |                |     |     | •         |     |     |     |     |          |           |     |  |   |
|   | DIMENSIONS    | WIDTH       |   |                |     | ٠,  |           |     |     |     |     |          |           |     |  |   |
|   | ÉNS           | HGT         |   |                |     |     |           |     |     |     |     |          |           |     | ······································ |   |
|   |               | Щ,          |   |                |     |     |           |     |     |     |     |          |           |     |  |   |
|   | DAVAGE IGAUGE | DEPTH       | 22,   |                | 321 | 22. | 24.       | 26* | 284 | 30. | 32* | 22       |           | 321 | 22                                     | 24.   |
|   | ı.j           | UNC         |   |                |     |     |           |     |     |     |     |          |           |     |  |   |
|   | J. I.         | 1 OI        |   |                |     |     |           |     |     |     |     |          |           |     |  |   |
|   | E DA          | H B         |   |                |     |     |           |     |     |     |     |          |           |     |  |   |
|   | TYPE          | MEC         |   |                |     |     |           |     |     |     |     |          |           |     |  |   |
|   |               | SEV         |   |                |     |     |           |     |     |     |     |          |           |     |  |   |
| } |               | _           |   |                |     |     |           |     |     |     |     |          |           |     |  |   |
|   | DAMAGE        | MIN MODIMAJ |   |                |     |     |           |     |     |     |     |          |           |     |  |   |
|   | PILE          | IN M        |   |                |     |     |           |     |     |     |     |          |           |     |  |   |
| • |               |             | ×   |                |     |     |           |     |     |     |     |          |           |     |  |   |
|   | r ''          | ONTN        |   | ; <sub>1</sub> | ×   | - 1 |           | ×   | ×   |     | ×   | ×        |           | ×   | :<                                     | ×   |
|   | FILE          | NO.         | ₹.  |                | i-  |     | - 1       | IJ  | a   | .2  | :4. | -;       |           | ļ±, | ٧                                      | :2  |
|   | E-1           |             |   |                |     |     | _         |     |     |     |     |          | 1.<br>-1. |     |  |   |
|   | BENT          | NO.         | 25  | 25             | 25  | 9.5 | <u>26</u> | 26  | 56  | 26  | 26  | 77       | 27        | 2.7 | 23                                     | <u>င</u> ႔<br>လ   |



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UPPERMATER CONSTRUCTION TEAM TWO

NAVAL CONSTRUCTION BATTALION CENTER

PORT HUENEME CALIFORNIA 93043

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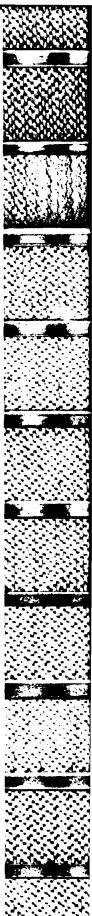
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|                         |                                | PILE   |   |                                |
|-------------------------|--------------------------------|--|---|--------------------------------|
| DIVERS: DURAN & JOHNSON | DER SHEET                      | STEEL PIPE STEEL SHEET X CONCRETE STEEL "H" PILE | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE |                                |
|                         | RING FENDER                    | ET X CONCRETI                                    | M DATUM = GAUG                              | HOVERS GO OF CHERERE G. HOLLED |
| DATE: 19 SEPT. 80       | PILE TYPE: X BEARING           | E STEEL SHE                                      | ATER DEPTH FRC                              | Separate and a control         |
| DATE                    | .R                             |  | TIDE: WA                                    | HOUNKY HEALT                   |
| LOCATION: IT. LOW CA    | PIER NAME/NO-PI, LOWA FUEL PII | PILE MATERIAL: TIMBER                            | TIME OF DAY: 1340                           | CONTROL CONTROL                |
| LOCAT                   | PIER 1                         | PILE !   | TIME (                                      | The Part of the said           |

| TIPLIE   NAME   TYPE   DAMAGE   GAUGE   DIMENSIONS OF   |           |      |            |      |       |   |     |     |      |   | i    |       |       |          |                         |   |             |
|---|-----------|------|------------|------|-------|---|-----|-----|------|---|------|-------|-------|----------|-------------------------|---|-------------|
| x0.         N2         N0         MIN MOD MAJ SEV MECH BIO FUNC DEPTH         HGT WIDTH         B           c         x         x         26°         x         x           b         x         x         32°         x         x           c         x         x         x         x         x           c         x         x         x         x         x           c         x         x         x         x         x           c         x         x         x         x         x           c         x         x         x         x         x           c         x         x         x         x         x           c         x         x         x         x         x           c         x         x         x         x         x           c         x         x         x         x         x           c         x         x         x         x         x           c         x         x         x         x         x           c         x         x         x         x         x   | BENE      | FILE | <b>-</b> - |      | ETTE. | l | HGE |     | TAKE | 1 | HGE  | GAUGE |       | F DAMAGE |                         |   |             |
| C       X       .       26'       .         D       X       37'       .         A       X       32'       .         B       X       22'       .         C       X       24'       .         L       X       26'       .         L       X       32'       .         L       X       32'       .         L       X       37'       .         A       X       32'       .         B       X       32'       .         C       X       .       .         C       X       .       .         C       X       .       .         C       X       .       .         C       X       .       .         C       X       .       .         C       X       .       .         C       X       .       . </th <th>::C:</th> <th>NO.</th> <th>ż</th> <th></th> <th>IN</th> <th>δ</th> <th>MA</th> <th>SEV</th> <th>Σ</th> <th></th> <th>FUNC</th> <th>DEPTH</th> <th>WIDTH</th> <th>PENETR</th> <th><b>E</b>00</th> <th>COMMENTS</th> <th></th> | ::C:      | NO.  | ż          |      | IN    | δ | MA  | SEV | Σ    |   | FUNC | DEPTH | WIDTH | PENETR   | <b>E</b> 00             | COMMENTS  |             |
| D X X 337   | 28        | U    |            | ×    |       |   |     |     |      |   |      | 26'   |       |          | 10" MARINE<br>RARNACLES | 10" MARINE GPOWTH IE. (MUSSELS<br>PARNACLES & SCALLOPS.)  | . (MUSSELS. |
| 1.       X       37'         A       X       22'         A       X       22'         B       X       24'         C       X       26'         L       X       28'         L       X       37'         A       X       32'         C       X       32'  | 28        | a    |            | ×    |       |   |     |     |      |   |      | 28'   |       |          |                         |   | •           |
| F X X 32'  B-1 X X 32'  A X X 24'  B X X 24'  C X X 24'  L X X 30'  A X X 23'  A X X 24'  A X X 25'  A X X 25'  A X X 25'  A X X X X X X X X X X X X X X X X X X  | င္ 1<br>ည | -1   |            | - 22 |       |   |     |     |      |   |      | 30.   |       |          | =                       | =   | :           |
| D-1 X X 32°   | 23        | £.,  |            | ::   |       |   |     |     |      |   |      | 321   | ٠,    |          | =                       | =   | =           |
| B   | 29        | ⋖    |            | ×    |       |   |     |     |      |   |      | 22    |       | •        |                         | H.  | 11          |
| F X X B B X X C Y X X X X X X X X X X X X X X X X   | 29        | B-1. | ×          |      |       |   |     |     |      |   |      |       |       |          |                         |   |             |
| B X X C Y X T T X X X X X X X X X X X X X X X X   | 29        | (±i  |            | ×    |       |   |     |     |      |   |      | 32*   |       |          | ı                       | E   | 1           |
|   | 3.0       | Ą    |            | *    |       |   |     |     |      |   |      | 22    |       |          | н                       | #   |             |
| L X X X X X X X X X X X X X X X X X X X   | 3.0       | g    |            | ×    |       |   |     |     |      |   |      | 24    |       |          | н                       | 44  |             |
| 2 1 L × × × × × × × × × × × × × × × × × ×   | 33        | IJ   |            | ×    |       |   |     |     |      |   |      | 26    |       |          | 11                      | 11  |             |
| L X X X X X X X X X X X X X X X X X X X   | 30        | ٦    |            | ж    |       |   |     |     |      |   |      | 284   |       |          | ı                       | н   | •           |
| × ×   |           | 1.1  |            | ×    |       |   |     |     |      |   |      | 30.₽  |       |          | =                       | =   | =           |
| X   | 30        | Ĺ    |            | >:   |       |   |     |     |      |   |      | 32,   |       | ·        | 2                       | 2   |             |
|   | 31        | -\$  |            | ×    |       |   |     |     |      |   |      | 22    |       |          | 10" MARINE<br>DARNACLES | 10" MARINE GPOSTRI IE. (MUSSELS<br>PARNACLES & SCALLOPS.) | . (MUSSELS) |



NAVAL CONSTHUCTION BATTALION CENTER UNDER BATER COUSTROOT ON TEAM TWO CI THE NAVY

( J. A. )

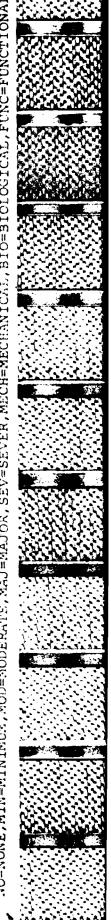
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PORT HLENEME CALIFORNIA 93043

|                      | LUCA        | TION | 14 : E    | LOCATION: PI. LOMA CA | 5                 |        |       |      |                  | DATE: 19           |             | SIPT. 30               | AIG     | ERS: NURAN         | DIVERS: PUPAR & JOHNSON                               |            |           |
|----------------------|-------------|------|-----------|-----------------------|-------------------|--------|-------|------|------------------|--------------------|-------------|------------------------|---------|--------------------|---|------------|-----------|
|                      | PIER        |      | IE/NC     | NAME/NO. PT. LOMA     | VXOT              | FULL   | -     | IER  | 1                | PILE               | TYPE:       | X BEA                  | BEARING | FENDER             | R SHEET   | ET         |           |
|                      | PILE        |      | MATERIAL: | i.                    | []                | TIMBER | د ا   | ST   | STEEL            | EdId               | STEEL       | EL SHEET               |         | XCONCRETE          | STEEL "H"   | "H" PILE   |           |
|                      | TIME        | OF   | DAY:      | DAY: 1340             |                   | ₽      | TIDE: |      |                  | - WAT              | WATER DEPTH |                        | M DATUN | FROM DATUM = GAUGE | DEPTH -   | TIDE:      |           |
| BENT PILE<br>NO. NO. | PILE<br>NO. | NI   | NO        | PILE DA               | DAMAGE<br>IOD MAJ | L      | SEV   | MECH | DAMAGE<br>BIO FU | DAMAGE<br>BIO FUNC | GAUGE       | DIMENSIONS<br>HGT WIDT | J J     | OF DAMAGE          | COM   | COMMENTS   |           |
| 31                   | ∄−ก         | Ж    |           |                       |                   | •      |       |      |                  |                    |             |                        |         |                    |   |            |           |
| 31                   | بلنز        |      | ×         |                       |                   |        |       |      |                  |                    | 321         |                        |         |                    | 10" MARINE GROWTH IF. (MUSSELS,                       | GROPTH IF. | (MUSSELS, |
| 32                   | Ą           |      | :<        |                       |                   |        |       |      |                  |                    | 22.         |                        |         |                    | :   | 14         | "         |
| 32                   | T.          |      | ×         |                       |                   |        |       |      |                  |                    | 24.1        |                        | ٠,      |                    | н   | 11         | 11        |
| 32                   | ပ           |      | ×         |                       |                   |        |       |      |                  |                    | 26'         |                        |         |                    | н   | u          | 11        |
| 32                   | E           |      | ×         |                       |                   |        |       |      |                  |                    | 281         |                        |         |                    | н   | 1          | 11        |
| 32                   | ĵ.,         |      | <br>;4    |                       |                   |        |       |      |                  |                    | 30.         |                        |         |                    | 14  | 14         | u         |
| 33                   | A           |      | ×         |                       |                   |        |       |      |                  |                    | 22'         |                        |         |                    | 2   | <b>E</b>   | =         |
| 33                   | ù-ï         | ×    |           |                       |                   |        |       |      |                  |                    |             |                        |         |                    |   |            |           |
| 33                   | H           | -    | ×         |                       |                   |        |       |      |                  |                    | 32'         |                        |         |                    | =   | =          | =         |
| 34                   | V           |      | Ж         |                       |                   |        |       |      |                  |                    | 22,         |                        |         |                    |   |            |           |
| 34                   | 'n          |      | ×         |                       |                   |        |       |      |                  |                    | 24          |                        |         |                    | и   |            | 11        |
| 34                   | S           |      | ×         |                       | ·<br>             |        |       |      |                  |                    | 261         |                        |         |                    | ı   | ı          |           |
| 34                   | IJ          |      | -×        |                       |                   |        |       |      |                  |                    | 28          |                        |         |                    | 10" MARINE GROUTH IE, (MUSSELS BARNACLES & SCALLOPS.) | CROUTH IE. | (MUSSELS. |

NO=NONE,MIN=MINIMUM,MOD=MODERATS,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL



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NAVAL CONSTRUCTION BATTALION CENTER PORT HUENEME CALIFORNIA 93043 UNDERWATER CONSTRUCTION TEAM TWO

|                            |               |                  |                                | ,  |  |     |    |      |    |     |     |     |     |     |     |     |     |   |
|----------------------------|---------------|------------------|--------------------------------|--|--|-----|----|------|----|-----|-----|-----|-----|-----|-----|-----|-----|---|
|                            |               | ជ                |                                |  | 12" MARINE CROWTH IE. (HUSSELS<br>BARMACLES & SCALLOPS.) | =   |    |      | =  | 1   | 11  | 11  | 11  | 11  | =   | =   |     | 12" MARINE GROWTH IE. (MUSSELS,<br>BARMACIES & SCALLOPS.) |
| KI                         | ET            | "H" PILE         | TIDE:                          | COMMENTS                                     | S SCALLO   | =   | =  |      | =  | =   | и   | u   | 11  | 11  | =   | =   |     | GROUTH I  |
| E & EMBORS                 | SHEET         | STEEL            | DEPTH -                        | COM  | 12" MARINE CROWIII IE. (<br>BARNACLES & SCALLOPS.)       | 1   | 11 |      | 11 | =   | 14  | 11  | 11  |     | =   | :   |     | 12" MARINE GROSTH IE. ("BAPVACIES & SCALLOPS.)            |
| DIVERS: DEWILLE & EMBORSKI | FENDER        | NCRETE [         | WATER DEPTH FROM DATUM = GAUGE | DIMENSIONS OF DAMAGE<br>HGT   WIDTH   PENETR |  |     |    |      |    |     |     |     |     |     |     |     |     |   |
| DIVE                       | RING          | SHEET X CONCRETE | M DATUM                        | SIONS OF                                     | <b></b>  |     |    | ٠,   | •  |     |     |     |     |     |     |     |     |   |
| T. 80                      | X BEARING     | EL SHE           | IH FRO                         | DIMEN  |  |     |    |      |    |     |     |     |     |     |     |     |     |   |
| 19 SEPT.                   | TYPE:         | STEEL            | ER DEP                         | GAUGE  | 301  | 251 | 25 |      | 25 | 251 | 251 | 25* | 25* | 125 | 25' | 25' |     | 251   |
| DATE:                      | PILE          | BdId             | WAT                            | DAWAGE<br>BIO FUNC                           |  |     |    |      |    |     |     |     |     |     |     |     |     |   |
|                            |               | STEEL            |                                |  |  |     |    |      |    |     |     |     |     |     |     |     |     |   |
|                            | L PIER        |                  | TIDE:                          | SEV MECH                                     |  |     |    |      |    |     |     |     |     |     |     |     |     |   |
| CA                         | LOYA FUEL     | TIMBER           | E                              | <b> </b>                                     | <del> </del>   |     |    |      |    |     |     |     |     |     |     |     |     |   |
| rt. Lona ca                | PT.           | ا<br>ا           | DAY: 1345                      | PILE DAWAGE                                  |  |     |    |      |    |     |     |     |     |     |     |     |     |   |
|                            | IE/NC         | MATERIAL:        | DAY                            | NON  |  | ×   | X  |      | :4 | ×   | X   | ×   | ×   | ۲<  | х   | :<  |     | ×   |
| TION                       | NAN           |                  | OF                             | HN   |  |     |    | ×    |    |     |     |     |     |     |     |     | ×   |   |
| LOCATION:                  | PIER NAME/NO. | o<br>Fi          | TIME                           | ENT PILE                                     | اـــــــــــــــــــــــــــــــــــــ                   | Ţ   | Ą  | n-1. | ļ. | ٧   | 3   | ၁   | а   | Ŀ   | F   | <   | Ľ−E | <u> </u>  |
|                            |               |                  |                                | S.C.   | 34   | 3,4 | 35 | 35   | 35 | 36  | ဦ   | 3.  | 36  | 36  | 36  | 37  | 37  | 37  |



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| COMMENTS  | 12" MARINE GROWTH IE. CHUSSELS.<br>BARNACLES & SCALLOPS.) |     | =   | =   | =   | =  | =   |     | =           |     | =          |     | =   | IZ" MARINE GROFTH IF. (MUSSILS.)<br>BARNACLES & SCALLOPS.) |
|---|---|-----|-----|-----|-----|----|-----|-----|-------------|-----|------------|-----|-----|--|
| COMIN   | 12" MARINE GROUTH IE.<br>BARNACLES & SCALLOPS.            | =   | :   | =   | =   | =  | =   |     | =           | =   | <b>:</b>   | =   | =   | IZ" MARINE C<br>BARNACLES &                                |
| OF DAMAGE   |   |     |     |     |     |    |     |     |             |     |            |     |     |  |
|   |   | _   |     | ,   |     |    |     |     |             |     |            |     |     |  |
| DIMEN   |   |     |     |     |     |    |     |     |             |     |            |     |     |  |
| YPE DAMAGE GAUGE DIMENSIONS<br>ECH BIO FUNC DEPTH HGT WIDTE | 281   | 28. | 281 | 281 | 28, | 28 | 284 |     | 28*         | 281 | 28         | 28* | 284 | 28'  |
| DAMAGE<br>BIO FUNC  |   |     |     |     |     |    |     |     |             |     |            |     |     |  |
| YPE DA  |   |     |     |     |     |    |     |     |             |     | 1          |     |     |  |
| SEV M   |   |     |     |     |     |    |     |     |             |     |            |     |     |  |
| DAMAGE<br>MOD MAJ   | •   |     |     |     |     |    |     |     |             |     |            |     |     |  |
| FILE  |   |     |     |     |     |    |     |     |             |     |            |     |     |  |
| IN  | ;4  | :ব  | *4  | ×   | ፧‹  | ×  | ×   | ×   | ×           | ×   | *          | >1  | ×   | ×  |
| -   | -14   | ıa  | ပ   | ъ   | ٦.  | 'n | A   | i-E | <b>f</b> in | V   | ; <b>a</b> | ပ   | Ü   | -4   |
| BENT PILE<br>NO. NO.  | 38  | 33  | 38  | 38  | 38  | 38 | 39  | 39  | 39          | 65  | 40         | 67  | 07  | 40   |



MAVAL CONSTRUCTION BATTALION CENTER PORT HUENEME CALIFORNIA 93043 UNDERSTATER CONSTRUCTION TEAM TWO DECAMBINENT OF THE NAVY

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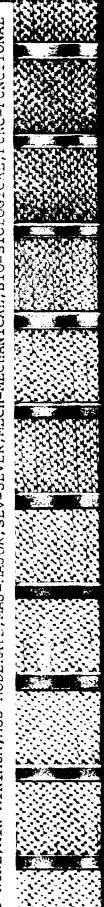
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|                 |                             | ω                     |                                |                             | MUSSFLS                                       | =          |     | 11  | *   | 1   | **  | 11  | 14  | 11  | 11  |     |     | 12" MARINE GPOUTH IL. (MUSSILS, BARNACLES & SCALLOPS.) |
|-----------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|---|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| \$e             | ET                          | "H" PILE              | TIDE:                          | COMMENTS                    | 12" MARINE GROWTH IE. (BARNACLES & SCALLOPS.) | =          |     | 1   | u   | 11  | 14  | 11  | 11  | 11  | =   |     | =   | GPOUTH I   |
| S JOHNSON       | SHEET                       | STEEL                 | DEPTH -                        | COS                         | 12" MARIN<br>BAPWACLES                        | -          |     | 11  | ı   | **  | 14  |     | •   | 14  |     |     | =   | 12" MARINE GPOUTH IE. (<br>BARNACLES & SCALLOPS.)      |
| DIVERS: DURAN & | FENDER                      | ONCRETE [             | WATER DEPTH FROM DATUM = GAUGE | PENETR                      |   |            |     |     |     |     |     |     |     |     |     |     |     |  |
| lvid            | RING                        | STEEL SHEET XCONCRETE | M DATUM                        | DIMENSIONS OF HGT   WIDTH   |   |            |     | •   |     |     |     |     |     |     |     |     |     |  |
| 80              | BEARING                     | IL SHE                | H FRO                          | DIMEN                       |   |            |     |     |     |     |     |     |     |     |     |     |     |  |
| DATE: 19 SFFT.  | PILE TYPE: [                | STEE                  | ER DEPT                        | GAUGE<br>DEPTH              | 281   | 281        |     | 28* | 281 | 284 | 281 | 281 | ,28 | 281 | 281 |     | 182 | 28.  |
| DATE:           | PILE,                       | PIPE                  | WAT                            | DAWAGE<br>BIO FUNC          |   |            |     |     |     |     |     |     |     |     |     |     |     |  |
|                 |                             | STEEL                 |                                | DAVAGE<br>  BIO [FU]        |   |            |     |     |     |     |     |     |     |     |     | _   |     |  |
|                 | FILE                        |                       |                                | TYPE                        |   |            |     |     |     |     |     |     |     |     |     |     |     |  |
|                 | EUEL I                      | BER                   | TIDE:                          | SEV                         |   |            |     |     |     |     |     |     |     |     |     |     | _   |  |
| 5               | LOXA                        | TIMBER                |                                | FILE DAWAGE MIN   MOD   MAJ |   |            |     |     |     |     |     |     |     |     |     |     |     |  |
| PT. LOYA CA     | គ                           |                       | H                              | PILE D.                     |   |            |     |     |     |     |     |     |     |     |     |     |     |  |
|                 | E/NO.                       | MATERIAL:             | DAY 1215                       | NO MI                       | <b>&gt;</b> :                                 | 14         |     | ×   | ×   | ×   | :<  | Ж   | >;  | >:  | ×   |     | *   | ×  |
| LION            | NAMI                        |                       | OF                             | IN                          |   |            | ×   |     |     |     |     |     |     | •   |     | ×   |     |  |
| LOCATION:       | PIER NAME/NO. PT. LOMA FUEL | PILE                  | TIME                           | PILE<br>NO.                 | Ŀ   | <b>~</b> ; | i-i | Lin | ۷   | шą  | ပ   | 2   | ы   | ŗ.  | γ.  | L-E | μ   | V  |
|                 |                             |                       |                                | BENT PILE<br>NO. NO.        | 40  | 4.1        | 4.1 | 4.1 | 42  | 42  | 4.2 | 42  | 42  | 42  | 43  | 43  | 43  | 77   |



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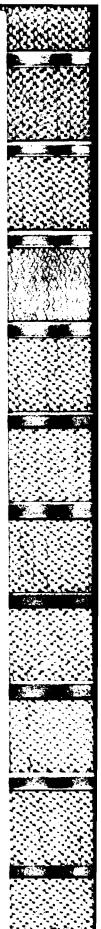
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| & TOIMSON               | л Пзнеет                   | STEEL "H" PILE         | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: | COMMENTS  | 12" MARINE GROWTE IF. (MUSSILS PARNACIES & SCALIOPS.) |     |        |
|-------------------------|----------------------------|------------------------|--|---|---|-----|--------|
| DIVERS: DURAN & JOINSON | FENDER                     | STEEL SHEET X CONCRETE | M = GAUGE                                    | TIVE DAWAGE GAUGE DIMENSIONS OF DAMAGE MECH BIO FUNC DEPTH HGT   WIDTH PENETR |   |     |        |
|                         | ARING                      | SET X                  | M DATU                                       | SIONS   |   |     |        |
| 19 SEFT. 80             | X BE                       | EL SHE                 | TH FRO                                       | DIMEN   |   |     |        |
| }                       | PILE TYPE: X BEARING       | STE                    | rer dei                                      | CAUGE<br>DEPTH  | 281   | 28. |        |
| DATE:                   | PILE                       | STEEL PIPE             | WA7  | MAGE<br>O FUNC  |   |     | <br> - |
|                         | e:                         | ] steel                |  | ECH BI  |   |     | _      |
|                         | JIL PIER                   | a;                     | TIDE:_                                       | SEV M   |   |     |        |
| CA                      | LOW F                      | TIMBER                 |  | ANTAGE<br>D MAJ   |   |     |        |
| LOCATION: PT. LOYA CA   | PIER NAME/NO. PT. LOW FUIL | AL:                    | TIME CF DAY: 1300                            | NI NO MIN MOD MAJ SEV   |   |     |        |
| ' .                     | ME/N                       | PILE MATERIAL:         | DAY  | NO  | и   | ×   | _      |
| TIO                     | R NA                       | E MA                   | E CF   | N   |   |     | _      |
| LOC                     | PIE                        | PILI                   | TIME   | NO. NO.   | د   | C   | -      |
|                         |                            |                        |  | 0.  | 7   | 4   |        |

|                        | IE. (MUSSEES,  | E   |          |     |     | ε   |     | ŧ   | ŧ  |     | =   |    | =             | & SCALLOPS.)                 |
|------------------------|--|-----|----------|-----|-----|-----|-----|-----|----|-----|-----|----|---------------|------------------------------|
| COMMENTS               | 12" MARINE GROWTE IE. (MUSSIES<br>PARNACIES & SCALIOPS.) | ı   |          |     | н   |     |     |     | ı  | ı   | H.  |    | =             | VE GROUTH IN<br>S & SCALLOPS |
|                        | 12" MARJ<br>PARNACLI                                     | =   | =        | 14  | ŧ   | Ξ   |     | 44  |    | 14  |     | 14 | =             | 12" MARINE<br>BARNACLES &    |
| PENETR                 |  |     |          |     | •   |     |     |     |    |     |     |    |               |                              |
| WIDTH F                |  |     |          |     |     |     |     |     |    |     |     |    |               |                              |
| DIMENSIONS<br>HGT WIDT |  |     |          |     |     |     |     |     |    |     |     |    |               |                              |
| DEPTH                  | 281  | 28. | 281      | 284 | 28" | 281 |     | 284 | 28 | 284 | 281 | 28 | 284           | 284                          |
| ပ္ပ                    |  |     |          |     |     |     |     |     |    |     |     |    |               |                              |
|                        |  |     |          |     |     |     |     |     |    |     |     |    |               |                              |
| MECH                   |  |     |          |     |     |     |     |     |    |     |     |    |               |                              |
| SEV                    |  |     |          |     |     |     |     |     |    |     |     |    |               |                              |
| DAYMAJ<br>OD MAJ       |  |     |          |     |     |     |     |     |    |     |     |    |               |                              |
| 4.4                    |  |     |          |     |     |     |     |     |    |     |     |    | · · · · · ·   |                              |
| MININ                  |  |     |          |     |     |     |     |     |    |     |     |    |               |                              |
| ON                     | ×  | ×   | ::       | ×   | и   | ×   |     | Ж   | ж  | 7.  | ×   | X  | <b>&gt;</b> ; | Ж                            |
| H                      |  |     |          |     |     |     | ×   |     |    |     |     |    |               |                              |
| NO. NO.                | در   | U   | <u>a</u> | 1   | ji. | ٧   | 1−3 | Fi. | << | :1  | ں   | a  | П             | Ŀ                            |
| NO.                    | 77   | 44  | 44,      | 77  | 44  | 45  | 45  | 45  | 76 | 46  | 46  | 40 | 99            | 37                           |



NAVAL CONSTRUCTION BATTALION CENTER UNDERWATER CONSTRUCTION TEAM TWO PORT HUENEME, CALIFORNIA 93043 DEPART JENT OF THE NAVY

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| & EMBORSKI                 | SHEET                 | STEEL "H" PILE         | DEPTH - TIDE:                     | COMMENTS                                     | 12"MARTNE CPOUTH IF. (MUSSILS, | 11  |     | 11  | 11        | 11       | 11  |     | 11           | 11 11 |            | =   |
|----------------------------|-----------------------|------------------------|-----------------------------------|--|--------------------------------|-----|-----|-----|-----------|----------|-----|-----|--------------|-------|------------|-----|
| DIVERS: DEMILLE & LYBORSKI | FENDER                | STEEL SHEET X CONCRETE | WATER DEPTH FROM DATUM = GAUGE DE | DIMENSIONS OF DAMAGE<br>HGT   WIDTH   PENETR |                                | =   | 1   | и   | 11        | ıı       | ı   |     | :            | •     |            | •   |
| DI                         | RING                  | × Et                   | 4 DATU                            | SIONS O                                      |                                |     |     | ٠,  |           |          |     |     |              |       |            |     |
| ßu                         | PILE TYPE: X BEARING  | EL SHER                | TH FROM                           | DIMENS                                       |                                |     |     |     |           |          |     |     |              |       |            |     |
| DATE: 19 SEPT.             | rype: [               | STE                    | SR DEPT                           | DAMAGE GAUGE<br>BIO FUNC DEPTH               | 28                             | 28  | 28" | 28, | 28        | 281      | 30. |     | 30.          | 30.   |            | 30. |
| DATE:                      | PILE 1                |                        | WATE                              | FUNC   |                                |     |     |     |           |          |     |     |              |       |            |     |
| 1                          |                       | STEEL PIPE             |                                   | 1  |                                |     |     |     |           |          |     |     |              |       |            |     |
|                            | PIER                  |                        |                                   | TYFE   |                                |     |     |     |           |          |     |     |              |       |            |     |
|                            | FITT PI               | SER                    | TIDE                              | SEV  |                                |     |     |     |           |          |     |     |              |       |            |     |
| CA                         | MA FI                 | TIMBER                 |                                   | FILE DAMAGE                                  | ,                              |     |     |     |           |          |     |     |              |       |            |     |
| - 1                        | 7. LO                 |                        | 300                               | I MOL  |                                |     |     |     |           |          |     |     |              |       |            |     |
| rT. 1.                     | /NO.P                 | RIAL                   | DAY: 1300                         | FILE   |                                |     |     |     |           |          |     |     |              |       |            |     |
| ion:                       | HAME,                 | MATERIAL:              | OF Di                             | NI NO  | :4                             | .:4 | ×   | ×   | >1        | >4       | ×   | ×   | \$- <b>4</b> | ,×    | :<         | :4  |
| LOCATION: PT. LOMA         | PIER NAME/NO.PT. LONA | PILE                   | TIME (                            | -  | <                              | ia  | ပ   | a   | <b>14</b> | <b>j</b> | Ÿ   | 3-L | ţщ           | <     | 13—E       | Į., |
|                            |                       |                        |                                   | BENT FILE<br>NO. NO.                         | 47                             | 4.7 | 7.7 | 47  | 47        | 4.7      | 48  | 48  | 48           | 4)    | <b>7</b> ن | 5   |

NO=NONE,MIN=MINIMUM,MOD=MODERATE,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAI,BIO=BIOLOGICAL,FUNC=FUNCTIONAL

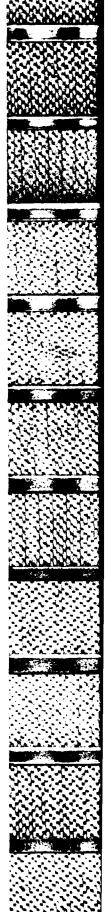
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12" MARINE GROFT! IF. (ATSSELS BARMACLES & SCALLOPS.)



## SLIDES

## J - K PIERS

l - 6: Exposed rebar on concrete piles.

7 -10: Typical marine growth

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11 -13: Damage noted above waterline, particularly gunite problems.

E. MAVAL CONSTRUCTION BATTALION CENTER PORT HUENEME, CALIFORNIA 93043 ENDERANTER CONSTRUCTION TEAM TWO このでは、一番をは、これには自然をとれ F: 7 

| LOCATION: FF. LOWA CA            | DATE: 10 SIDT. 20 DIVERS: UPICUT & DUNN   | T:       |
|----------------------------------|---|----------|
| PIER NAME/NO. PT. LOTA FULL FILE | PILE TYPE: NBEARING FENDER SHEET  | неет     |
| PILE MATERIAL: TIMBER STEEI      | STEEL PIPE STEEL SHEET XCONCRETE STEEL "H" PILE   | TH" PITE |
| TIME OF DAY: 1105 TIDE:          | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:  | - TIDE:  |
| THE MENT HOUSE                   | PROPERTY OF SHOT SHEWED TO THE STORY OF THE |          |

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|                       |                             | ıre                  |  |  | 12" MARINE CROTHE IE. CHESHLS                     | Ξ    | =   | =   | =   | =   | Ξ    |
|-----------------------|-----------------------------|----------------------|--|--|---|------|-----|-----|-----|-----|------|
| nen i                 | SHEET                       | STEEL "H" PILE       | WATER DEPTH FROM SATUM = GAUGE DEPTH - TIDE: | COMMENTS                                     | 12" MARINE CPOTTH IB. (<br>BATTACLES & SCALLOPS.) | Ε    | Ξ   | =   | =   | Ξ   | =    |
| TCLT                  |                             |                      | E DEP  | <u>a</u>                                     | 12" >   |      | =   | =   | =   | =   | =    |
| DIVERS: TPICAT & DUT  | FENDER                      | STIEL SHEET CONCRETE | = GAUG                                       | F DAMAGE                                     |   |      |     |     |     |     |      |
| VIC                   | RING                        |                      | M CATUM                                      | GACGE DIMENSIONS OF DEPTH   HGT   WIDTH   H  |   |      |     | ١,  |     |     |      |
| 1 To 1 To 1           | BEA                         | EL SHE               | TH FRC                                       | DIMEN<br>HGT                                 | 11  |      |     |     |     |     |      |
| DATE: 10 CIVI. GO     | PILE TYPE: WBEARING         |                      | ER DEP                                       | TYPE DAWNGE GAUGE<br>SEV MECH BIC FUNC DEPTH | 22*   | . 98 | ,97 | 231 | 301 | 321 | 22.  |
| DATE:                 | PILE                        | EdId                 | WAT  | NGE  |   |      |     |     |     |     |      |
|                       |                             | GTEEL PIPE           |  | TIPE DAMAGE<br>MECH BIC FU                   |   |      |     |     |     |     |      |
|                       | PTLP                        |                      | .i   | TYE!   |   |      |     |     |     |     |      |
|                       | ì                           | IBER                 | TIDE:  | _  | <b>*****</b>                                      |      |     |     |     |     |      |
| 5                     | LOYA                        | TIMBER               |  | SAN GO                                       | •   | -    |     |     |     |     |      |
| LOCATION: PT. LOTA CA | PIER NAME/NO. PT. LONA FULL | AI:                  | TIME OF DAY: 1120                            | PILE DAMAGE<br>NO MIN MOD MAJ                |   |      |     |     |     |     |      |
|                       | ME/N                        | PILE MATERIAL:       | , DAY  | h+   | :4  | ;4   | >4  | ×   | ×   | :<  | ×    |
| ATIC                  | N X                         | Ž.                   | e<br>PO                                      | Z  | ·<br>-  |      |     |     |     |     |      |
| LOC                   | PIEI                        | PIL                  | TIMI   | CNT PILE                                     | 1   | a    | رن  | r2  | :42 | i   |      |
|                       |                             |                      |  | NO.  | 7   | 7    | 7   | 1   | 1   | 7   | - 55 |

| _       |                          |   |   |   |   |   |      |       |   |  |
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|         |                          | _ | : |   | _ | _ | _    | ' ' ' | _ | TOTAL TELEFORM STATE TOTAL   |
| <u></u> | - 7                      | _ | : |   | _ |   |      |       |   | <br>CONTRACTOR OF THE CONTRACTOR O |
| _       |                          | _ |   | - |   |   | <br> |       |   | TAPY A CONTINUE OF TAPE  |
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MAVAL CONSTRUCTION BATTALION CENTER PORT PUENEME, CALIFORNIA 93043 UNDERWATER CONSTRUCTION TEAM TWO C. . HE NAVY 

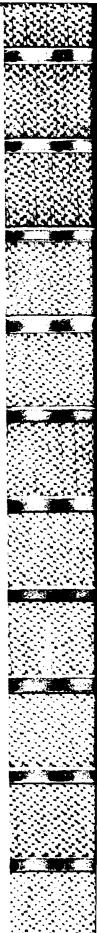
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| LOCATION: 17. LOVA CA             | DATE:   | DATE: 1981FT.30 DIV          | DIVERS; TTIGHT & NETT                        |
|-----------------------------------|---------|------------------------------|--|
| PIER NAME/NO. PT. LOTA PLIT, PILE | PILE TY | PILE TYPE: XBEARING          | FENDER SHEET                                 |
| PILE MATERIAL: TIMBER STEEL       | PIPE [  | STEEL PIPE STEEL SHEET 3     | CONCRETE STEEL "H" PILE                      |
| TIME OF DAY: 1125 TIDE:           | WATER   | R DEPTH FROM DATUM           | WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: |
| EDYNCH ECOM EDOMON SILE           |         | GOVERNO GO ONOLONGMICH GOUND | DAMACED.                                     |

| COMMENTS                     | 12" MARTHE GPOTTE II. (PTSSFTS, BARNACLES & SCALLOPS.) | = = | 11 11          |      | E    | =   |       | ======================================= |     | =   | 11 11 | =  |      | 12" MARINE GROTTH IL. (MUSSILLS)<br>BARNACLIS & SCALLOPS.) |
|------------------------------|--|-----|----------------|------|------|-----|-------|---|-----|-----|-------|----|------|--|
| JONS OF DAMAGE WIDTH PENETR  |  |     |                | ٠,   | •    |     |       |   |     |     |       |    |      |  |
| DIMENS                       |  |     |                |      |      |     |       |   |     |     |       |    |      |  |
| DEPTH                        | 301  | 30, | 301            |      | 301  | 221 | 24.   | 261                                     | 25* | 301 | 32.   | 22 |      | 321  |
| TIPE DAMAGE<br>MECH BIO FUNC |  |     |                |      |      |     |       |   |     |     |       |    |      |  |
| SEV                          |  |     |                |      |      |     |       |   |     |     |       |    |      |  |
| EILE DAWAGE<br>LEWIMODINA    |  |     |                |      |      |     |       |   |     |     |       |    |      |  |
| NI NO M                      | ×  | ×   | ν:<br>         | ×    | и    | ×   | ×     | ;<                                      | :<  | :4  | 14    | :4 |      | :4   |
| PILE NO.                     | -1   | ĵ:  | -4             | 1=0  | \$4. | Ą   | , ° ° | ၁                                       | a,  | 7   | بدإ   | ٧  | й-ц- | 3.4  |
| BENT P                       | 53   | 53  | <del>ئ</del> ر | 24 3 | 54   | 55  | 55    | 55                                      | 55  | ćć  | 55    | ž  | 9.7  | 3,   |



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| THE STRINGPRIT             | R SHEET                      | STEEL "H" PILE  | DEPTH - TIDE:              | COMMENTS                                 | 12" MARINI CPOMINI IE. (NISSIIS, |     | =   |     | ======================================= |      | =     | =   |            | ======================================= | ======================================= |     |
|----------------------------|------------------------------|-----------------|----------------------------|--|----------------------------------|-----|-----|-----|---|------|-------|-----|------------|---|---|-----|
| DIVERS: DITTLE & LITEOPSET | FENDER                       | SHEET XCONCRETE | FROM DATUM = GAUGE DEPTH - | S OF DAMAGE<br>TH PENETR                 |                                  |     |     |     |   |      |       |     |            |   |   |     |
|                            | BEARING                      |                 |                            | DIMENSIONS (HGT WIDTH                    |                                  |     |     | ٠,  |   |      |       |     |            |   |   |     |
| DATE: 10 SIPT. 80          | TYPE:                        | STEEL           | WATER DEPTH                |  | 30.                              | 30. | 30. | 30. | 30                                      |      | 30.   | 30. |            | 371                                     | 37.                                     | 371 |
| DATE:                      | aria -                       | E PER           | TAM                        | TYPE DAMAGE GAUGE<br>MECH BIO FUNC DEPTH |                                  |     |     |     |   |      |       |     |            |   |   |     |
|                            | T.I.                         | STEEL           |                            |  |                                  |     |     |     |   |      |       |     |            |   |   |     |
|                            | A FULL F                     | TIMBER          | TIDE                       | AGE<br>MAJ SEV                           | •                                |     |     |     |   |      |       |     |            |   |   |     |
| TOWN CA                    | er. le                       |                 | 1245                       | FILE DAMAGE<br>MIN   MOD   MAJ           |                                  |     |     |     |   |      |       |     |            |   |   |     |
| LOCATION: PILICIA CA       | PIER NAME/NO. ET. LOW FULL E | MATERIAL:       | OF DAY: 1245               | NI NO MI                                 | :<                               | ::: | ×   | ;;  | ×                                       | p4:  | \$-f. | ::  | <b>:</b> < | X                                       | 24                                      | ::  |
| LOCAT                      | PIER !                       | PILE N          | TIME C                     |  | J                                | ú   | ·   | þ., | <i>•</i> :                              | 5-1. | £     | ν,  | 3–3        | <u></u>                                 | Ϋ́                                      | -;  |
|                            |                              |                 |                            | NO. NO.                                  | ્ર                               | 3   | 6   | Ę   | 15                                      | 51   | 51    | C1  | 52         | 52                                      | 55                                      | ξĵ  |

NO=NONE,MIN=MINIMUM,MOD=MODERATE,MAJ=MAJOR,SEV=SEVER,MECH=MECHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL

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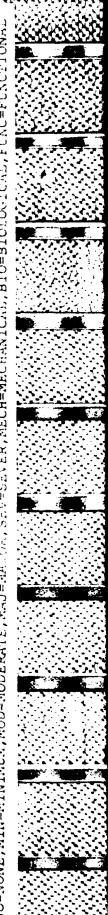
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12" MARTHE CPOPTH II. (MPSSTES) BARHACLES & SCALLOPS.)



## EMED

5-86 DT [